RCA

Solid State Product Guide

November, 1971

SPG-201H

Optional Price 20 Cents

How to use Product Guide

This booklet contains abbreviated data for the complete line of commercial solid-state products available from the RCA Solid State Division. All devices are listed in numerical-alphabetical-numerical sequence in the index on pages 3 – 7. A selection guide to types recommended for particular applications is given on pages 8 – 10. Complete detailed data on individual devices can be obtained by reference to the technical bulletins listed by file number and available by request to RCA Solid State Division, Box 3200, Somerville, N. J. 08876. Information on prices and availability of commercial devices, or on other devices which may presently be in a developmental stage, is available from RCA sales offices.

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Recently Announced Linear IC's▲

Operational Amplifiers

CA3060AD
CA3060BD
CA3060E
CA3078AT
CA3458T
CA3558T
CA3747CE
CA3747CT
CA3747E
CA3747T
CA3748CT
CA3748T

Transistor Arrays

CA3118AT
CA3118T
CA3146AE
CA3146E
CA3183AE
CA3183E
CA3093E

Sense Amplifier

CA3541D

Four-Quadrant Multiplier

CA3091D

▲Data for these types are not included in this issue. For information contact RCA Solid State Division, Box 3200, Somerville, N. J. 08876.

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Index of Types

RCA Type No.	Data File No.	Product Line	Page No.	Line No.
1N248C	6	R*	18	6
1N249C	6	R*	18	7
1N250C	6	R*	18	8
1N440B	5	R	17	13
1N441B	5	R	17	14
1N442B	5	R	17	15
1N443B	5	R	17	16
1N444B	5	R	17	26
1N445B	5	R	17	24
1N536	3	R	17	17
1N537	3	R	17	18
1N538	3	R	17	19
1N539	3	R	17	20
1N540	3	R	17	21
1N547	3	R	17	22
1N1095	3	R	17	23
1N1183A	38	R*	18	13
1N1184A	38	R*	18	14
1N1186A	38	R*	18	15
1N1187A	38	R*	18	16
1N1188A	38	R*	18	17
1N1189A	38	R*	18	18
1N1190A	38	R*	18	19
1N1195A	6	R*	18	9
1N1196A	6	R*	18	10
1N1197A	6	R*	18	11
1N1198A	6	R*	18	12
1N1199A	20	R*	17	93
1N1200A	20	R*	17	94
1N1202A	20	R*	17	95
1N1203A	20	R*	17	96
1N1204A	20	R*	17	97
1N1205A	20	R*	17	98
1N1206A	20	R*	17	99
1N1341B	58	R*	17	78
1N1342B	58	R*	17	79
1N1344B	58	R*	17	80
1N1345B	58	R*	17	81
1N1346B	58	R*	17	82
1N1347B	58	R*	17	83
1N1348B	58	R*	17	84
1N1612	18	R*	17	73
1N1613	18	R*	17	74
1N1614	18	R*	17	75
1N1615	18	R*	17	76
1N1616	18	R*	17	77
1N1763A	89	R	17	37
1N1764A	89	R	17	38
1N2326	55	D	19	1
1N2858A	91	R	17	39
1N2859A	91	R	17	40
1N2860A	91	R	17	41
1N2861A	91	R	17	42
1N2862A	91	R	17	43
1N2863A	91	R	17	44
1N2864A	91	R	17	45
1N3193	41	R	17	29
1N3194	41	R	17	30
1N3195	41	R	17	31
1N3196	41	R	17	27
1N3253	41	R	17	32
1N3254	41	R	17	33
1N3255	41	R	17	34
1N3256	41	R	17	28
1N3563	41	R	17	25
1N3754	39	R	17	10
1N3755	39	R	17	11
1N3756	39	R	17	12
1N4785	14	D	19	3
1N5211	245	R	17	46
1N5212	245	R	17	47
1N5213	245	R	17	48
1N5214	245	R	17	35
1N5215	245	R	17	49
1N5216	245	R	17	50
1N5217	245	R	17	51
1N5218	245	R	17	36
1N5391	478	R	17	62
1N5392	478	R	17	63
1N5393	478	R	17	64
1N5394	478	R	17	65
1N5395	478	R	17	66
1N5396	478	R	17	67
1N5397	478	R	17	68
1N5398	478	R	17	69
1N5399	478	R	17	70
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2N215	14	T	—	—
2N217	14	T	—	—
2N270	14	T	—	—
2N301	53	T	11	60
2N301A	53	T	11	61
2N351	14	T	—	—
2N370	14	T	—	—
2N372	14	T	—	—
2N376	14	T	—	—
2N388	14	T+	—	—
2N388A	14	T	—	—
2N398	14	T	—	—
2N398A	14	T+	—	—
2N398B	14	T	—	—
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2N405	14	T	—	—
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2N407	14	T	—	—
2N408	14	T	—	—
2N412	14	T	—	—
2N414	14	T	—	—
2N585	14	T	—	—
2N591	14	T	—	—
2N647	14	T	—	—
2N649	14	T	—	—
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2N682†	96	SCR	16	21
2N683†	96	SCR	16	22
2N684†	96	SCR	16	23
2N685†	96	SCR	16	47
2N686†	96	SCR	16	97
2N687†	96	SCR	17	1
2N688†	96	SCR	16	71
2N689†	96	SCR	17	2
2N690†	96	SCR	17	3
2N697	16	T	13	64
2N699	22	T	13	65
2N706	14	T	—	—
2N706A	14	T	—	—
2N709	14	T	—	—
2N718A	36	T	13	58
2N720A	36	T	13	59
2N834	14	T	—	—
2N917	14	T	—	—
2N918	83	T+	11	1
2N1066	14	T	—	—
2N1090	**14**	T	—	—
2N1091	**14**	T	—	—
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2N1178	14	T	—	—
2N1179	14	T	—	—
2N1180	14	T	—	—
2N1183	4	T+	11	43
2N1183A	4	T+	11	44
2N1183B	4	T+	11	45
2N1184	4	T+	11	46
2N1184A	4	T+	11	47
2N1184B	4	T+	11	48
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2N1225	14		—	—
2N1226	14		—	—
2N1300	14	T	—	—
2N1301	14	T	—	—
2N1302	14	T+	—	—
2N1303	14	T+	—	—
2N1304	14	T+	—	—
2N1305	14	T+	—	—
2N1306	14	T+	—	—
2N1307	14	T+	—	—
2N1308	14	T+	—	—
2N1309	14	T+	—	—
2N1395	14	T	—	—
2N1396	14	T	—	—
2N1397	14	T	—	—
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2N1480	135	T+	11	68
2N1481	135	T+	11	69
2N1482	135	T+	11	70
2N1483	137	T+	12	8
2N1484	137	T+	12	9
2N1485	137	T+	12	10
2N1486	137	T+	12	11
2N1487	139	T+	12	50
2N1488	139	T+	12	51
2N1489	**139**	T	12	52
2N1490	139	T+	12	53
2N1491	10	T	14	2
2N1492	10	T	14	3
2N1493	10	T+	14	4
2N1524	14	T	—	—
2N1526	14	T	—	—
2N1605	14	T	—	—
2N1605A	14	T	—	—
2N1613	106	T	13	66
2N1631	14	T	—	—
2N1632	14	T	—	—
2N1637	14	T	—	—
2N1638	14	T	—	—
2N1639	14	T	—	—
2N1683	14	T	—	—
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2N1702	141	T	12	54
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2N1843A	28	SCR	16	14
2N1844A	28	SCR	16	15
2N1845A	28	SCR	16	16
2N1846A	28	SCR	16	43
2N1847A	28	SCR	16	91
2N1848A	28	SCR	16	92
2N1849A	28	SCR	16	67
2N1850A	28	SCR	16	93
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2N1906	17	T	11	63
2N2015	12	T+	12	73
2N2016	12	T+	12	74
2N2102	106	T	13	74
2N2147	204	T	11	50
2N2148	204	T	11	51
2N2270	24	T	13	75
2N2338	141	T	12	75
2N2369A	14	T	—	—
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2N2475	14	T	—	—
2N2476	14	T	—	—
2N2477	14	T	—	—
2N2613	14	T	—	—
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2N2708	14	T	—	—
2N2857	61	T+	14	6
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2N2870	53	T	11	65
2N2876	32	T	14	7
2N2895	143	T	13	60
2N2896	143	T	13	61
2N2897	143	T	13	62
2N2953	14	T	—	—
2N3053	432	T	13	77
2N3054	433	T	12	13
2N3055	**524**	T+	12	65
2N3118	43	T	14	8
2N3119	44	T	14	9
2N3228	114	SCR	16	33
2N3229	50	T	14	10
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2N3242A	14	T	—	—
2N3261	14	T	—	—
2N3262	56	T	13	96
2N3263	54	T	13	20
2N3264	54	T	13	21
2N3265	54	T	13	34
2N3266	54	T	13	35
2N3375	386	T+	14	11
2N3439	64	T+	12	117
2N3440	64	T+	12	118
2N3441	146	T+	12	14
2N3442	207	T+	12	68
2N3478	77	T	11	2
2N3512	14	T	—	—
2N3525	114	SCR	16	57
2N3528	114	SCR	16	29
2N3529	114	SCR	16	53
2N3553	386	T+	14	12
2N3583	138	T	13	8
2N3584	138	T	13	9
2N3585	138	T	13	10
2N3600	83	T	11	5
2N3632	386	T	14	14
2N3650	408	SCR	16	24
2N3651	408	SCR	16	48
2N3652	408	SCR	17	4
2N3653	408	SCR	16	72
2N3668	116	SCR	16	12
2N3669	116	SCR	16	42
2N3670	116	SCR	16	66
2N3730	205	T	11	49
2N3731	205	T	11	39
2N3732	205	T	11	38
2N3733	72	T	14	15
2N3771	140	T+	12	76
2N3772	140	T+	12	77
2N3773	213	T	12	78

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2N3866	80	T+	14	17
2N3870	94	SCR	16	25
2N3871	94	SCR	16	44
2N3872	94	SCR	16	73
2N3873	94	SCR	17	5
2N3878	299	T	13	100
2N3879	299	T	13	101
2N3896	94	SCR	16	26
2N3897	94	SCR	16	50
2N3898	94	SCR	16	74
2N3899	94	SCR	17	6
2N3932	14	T	—	—
2N3933	14	T	—	—
2N4012	90	T	14	18
2N4036	216	T	13	48
2N4037	216	T	13	49
2N4063	64	T	12	119
2N4064	64	T	13	1
2N4068	14	T	—	—
2N4069	14	T	—	—
2N4074	14	T	—	—
2N4101	114	SCR	16	80
2N4102	114	SCR	16	77
2N4103	116	SCR	16	90
2N4240	138	T	13	11
2N4259	14	T	—	—
2N4314	216	T	13	50
2N4346	206	T	11	40
2N4347	207	T	12	63
2N4348	213	T	12	71
2N4390	14	T	—	—
2N4427	228	T	14	19
2N4440	217	T	14	20
2N4932	249	T	14	21
2N4933	249	T	14	22
2N5016	255	T	14	23
2N5038	367	T	13	104
2N5039	367	T	13	105
2N5070	268	T	14	24
2N5071	269	T	14	25
2N5090	270	T	14	26
2N5102	279	T	14	27
2N5108	280	T	14	28
2N5109	281	T	14	29
2N5179	288	T	11	8
2N5180	14	T	—	—
2N5183	14	T	—	—
2N5184	14	T	—	—
2N5185	14	T	—	—
2N5186	14	T	—	—
2N5187	14	T	—	—
2N5188	14	T		
2N5189	296	T	11	3
2N5202	299	T	13	102
2N5239	321	T	13	25
2N5240	321	T	13	26
2N5262	313	T	11	4
2N5293	322	T	12	21
2N5294	322	T	12	22
2N5295	322	T	12	23
2N5296	322	T	12	24
2N5297	322	T	12	25
2N5298	322	T	12	26
2N5320	325	T	13	97
2N5321	325	T	13	98
2N5322	325	T	13	53
2N5323	325	T	13	54
2N5415	336	T	12	87
2N5416	336	T	12	88
2N5441	456	TRI	15	26
2N5442	456	TRI	15	77
2N5443	456	TRI	15	95
2N5444	456	TRI	15	27
2N5445	456	TRI	15	78
2N5446	456	TRI	15	96
2N5470	350	T	14	31
2N5490	353	T	12	38
2N5491	353	T	12	39
2N5492	353	T	12	40
2N5493	353	T	12	41
2N5494	353	T	12	42
2N5495	353	T	12	43
2N5496	353	T	12	44
2N5497	353	T	12	45
2N5567	457	TRI	15	9
2N5568	457	TRI	15	60
2N5569	457	TRI	15	10
2N5570	457	TRI	15	61
2N5571	458	TRI	15	14
2N5572	458	TRI	15	65
2N5573	458	TRI	15	15
2N5574	458	TRI	15	66
2N5575	359	T	12	81
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2N5579	359	T	12	85
2N5580	359	T	12	86
2N5671	383	T	13	106
2N5672	383	T	13	107
2N5754	414	TRI	14	81
2N5755	414	TRI	14	94
2N5756	414	TRI	15	38
2N5757	414	TRI	15	83
2N5781	413	T	12	89
2N5782	413	T	12	90
2N5783	413	T	12	91
2N5784	413	T	12	5
2N5785	413	T	12	6
2N5786	413	T	12	7
2N5804	407	T	13	31
2N5805	407	T	13	32
2N5838	410	T	13	27
2N5839	410	T	13	28
2N5840	410	T	13	29
2N5913	423	T	14	32
2N5914	424	T	14	33
2N5915	424	T	14	34
2N5916	425	T	14	35
2N5917	425	T	14	36
2N5918	448	T	14	37
2N5919A	505	T	14	38
2N5920	440	T	14	39
2N5921	427	T	14	40
2N5954	435	T	12	101
2N5955	435	T	12	102
2N5956	435	T	12	103
2N5992	451	T	14	41
2N5993	452	T	14	42
2N5994	453	T	14	43
2N5995	454	T	14	44
2N5996	455	T	14	45
2N6032	462	T	13	108
2N6033	462	T	13	109
2N6077	492	T	12	34
2N6078	492	T	12	35
2N6079	492	T	12	36
2N6093	484	T	14	46
2N6098	485	T	12	55
2N6099	485	T	12	56
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2N6101	485	T	12	58
2N6102	485	T	12	59
2N6103	485	T	12	60
2N6105	504	T	14	47
2N6106	488	T	12	95
2N6107	488	T	12	96
2N6108	488	T	12	97
2N6109	488	T	12	98
2N6110	488	T	12	99
2N6111	488	T	12	100
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2N6176	508	T	13	6
2N6177	508	T	13	7
2N6211	507	T	12	92
2N6212	507	T	12	93
2N6213	507	T	12	94
3N128	309	FET	11	15
2N138	283	FET	11	11
2N139	284	FET	11	12
3N140	285	FET	11	21
3N141	285	FET	11	22
3N142	286	FET	11	10
3N143	309	FET	11	16
3N152	314	FET	11	17
3N153	320	FET	11	18
3N154	335	FET	11	19
3N159	326	FET	11	23
3N187	436	FET	11	29
3N200	437	FET	11	30
410	509	T	13	36
411	510	T	12	72
413	511	T	13	37
423	512	T	13	38
431	513	T	13	39
40022	69	T	11	52
40050	67	T	11	53
40051	67	T	11	54
40080	301	T	14	48
40081	301	T	14	49
40082	301	T	14	50
40084	40	T	13	63
40108	48	R*	17	85
40109	48	R*	17	86
40110	48	R*	17	87
40111	48	R*	17	88
40112	48	R*	17	89
40113	48	R*	17	90
40114	48	R*	17	91
40115	48	R*	17	92
40208	120	R*	17	100
40209	120	R*	17	101
40210	120	R*	18	1
40211	120	R*	18	2
40212	120	R*	18	3
40213	120	R*	18	4
40214	120	R*	18	5
40216	247	SCR	17	7
40231	14	T	—	—
40232	14	T	—	—
40233	14	T	—	—
40234	14	T	—	—
40235	14	T	—	—
40236	14	T	—	—
40237	14	T	—	—
40238	14	T	—	—
40239	14	T	—	—
40240	14	T	—	—
40242	14	T	—	—
40243	14	T	—	—
40244	14	T	—	—
40245	14	T	—	—
40246	14	T	—	—
40250	112	T	12	16
40251	112	T	12	69
40254	69	T	11	55
40266	75	R	17	71
40267	75	R	17	72
40279	46	T	14	51
40280	68	T	14	52
40281	68	T	14	53
40282	68	T	14	54
40290	70	T	14	55
40291	70	T	14	56
40292	70	T	14	57
40294	202	T	11	9
40295	14	T	—	—
40305	144	T	14	59
40306	144	T	14	60
40307	144	T	14	61
40309	78	T	13	78
40310	78	T	12	17
40311	78	T	13	79
40312	78	T	12	18
40313	78	T	13	12
40314	78	T	13	80
40315	78	T	13	81
40316	78	T	12	19
40317	78	T	13	82
40318	78	T	13	13
40319	78	T	13	43
40320	78	T	13	83
40321	78	T	12	114
40322	78	T	13	14
40323	78	T	13	84
40324	78	T	12	20
40325	78	T	12	70
40326	78	T	13	85
40327	78	T	12	115
40328	78	T	13	15
40329	14	T	—	—
40340	74	T	14	62
40341	74	T	14	63
40346	211	T	13	2
40347	88	T	12	2
40348	88	T	12	3
40349	88	T	12	4
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43055	14	T	—	—
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CD4009AK	479	ICD	27	33
CD4010††	471	ICD	—	—
CD4010D††	394	ICD	—	—
CD4010E††	445	ICD	—	—
CD4010AD	479	ICD	27	34
CD4010AE	479	ICD	27	35
CD4010AK	479	ICD	27	36
CD4011††	420	ICD	—	—
CD4011D††	420	ICD	—	—
CD4011E††	445	ICD	—	—
CD4011AD	479	ICD	27	13
CD4011AE	479	ICD	27	14
CD4011AK	479	ICD	27	15
CD4012††	420	ICD	—	—
CD4012D††	420	ICD	—	—
CD4012E††	445	ICD	—	—
CD4012AD	479	ICD	27	16
CD4012AE	479	ICD	27	17
CD4012AK	479	ICD	27	18
CD4013††	411	ICD	—	—
CD4013D††	411	ICD	—	—
CD4013E††	445	ICD	—	—
CD4013AD	479	ICD	27	84
CD4013AE	479	ICD	27	85
CD4013AK	479	ICD	27	86
CD4014††	471	ICD	—	—
CD4014D††	415	ICD	—	—
CD4014E††	445	ICD	—	—
CD4014AD	479	ICD	27	75
CD4014AE	479	ICD	27	76
CD4014AK	479	ICD	27	77
CD4015††	471	ICD	—	—
CD4015D††	416	ICD	—	—
CD4015E††	445	ICD	—	—
CD4015AD	479	ICD	27	78
CD4015AE	479	ICD	27	79
CD4015AK	479	ICD	27	80
CD4016††	444	ICD	—	—
CD4016D††	444	ICD	—	—
CD4016E††	445	ICD	—	—
CD4016AD	479	ICD	27	40
CD4016AE	479	ICD	27	41
CD4016AK	479	ICD	27	42
CD4017††	471	ICD	—	—
CD4017D††	428	ICD	—	—
CD4017E††	445	ICD	—	—
CD4017AD	479	ICD	27	47
CD4017AE	479	ICD	27	48
CD4017AK	479	ICD	27	49
CD4018††	471	ICD	—	—
CD4018D††	438	ICD	—	—
CD4018E††	445	ICD	—	—
CD4018AD	479	ICD	27	50
CD4018AE	479	ICD	27	51
CD4018AK	479	ICD	27	52
CD4019††	471	ICD	—	—
CD4019D††	439	ICD	—	—
CD4019E††	445	ICD	—	—
CD4019AD	479	ICD	27	19
CD4019AE	479	ICD	27	20
CD4019AK	479	ICD	27	21
CD4020††	471	ICD	—	—
CD4020D††	446	ICD	—	—
CD4020E††	445	ICD	—	—
CD4020AD	479	ICD	27	53
CD4020AE	479	ICD	27	54
CD4020AK	479	ICD	27	55
CD4021††	471	ICD	—	—
CD4021D††	447	ICD	—	—
CD4021E††	450	ICD	—	—
CD4021AD	479	ICD	27	81
CD4021AE	479	ICD	27	82
CD4021AK	479	ICD	27	83
CD4022AD	479	ICD	27	56
CD4022AE	479	ICD	27	57
CD4022AK	479	ICD	27	58
CD4023AD	479	ICD	27	22
CD4023AE	479	ICD	27	23
CD4023AK	479	ICD	27	24
CD4024AD	503	ICD	27	59
CD4024AE	503	ICD	27	60
CD4024AK	503	ICD	27	61
CD4024AT	503	ICD	27	62
CD4025AD	479	ICD	27	25
CD4025AE	479	ICD	27	26
CD4025AK	479	ICD	27	27
CD4026AD	503	ICD	27	63
CD4026AD	503	ICD	27	64
CD4026AK	503	ICD	27	65
CD4027AD	503	ICD	27	87
CD4027AE	503	ICD	27	88
CD4027AK	**503**	**ICD**	**27**	**89**
CD4028AD	503	ICD	27	37
CD4028AE	503	ICD	27	38
CD4028AK	503	ICD	27	39
CD4029AD	503	ICD	27	66
CD4029AE	503	ICD	27	67
CD4029AK	503	ICD	27	68
CD4030AD	503	ICD	27	28
CD4030AE	503	ICD	27	29
CD4030AK	503	ICD	27	30
CD4032AD	503	ICD	27	93
CD4032AE	503	ICD	27	94
CD4032AK	503	ICD	27	95
CD4033AD	503	ICD	27	69
CD4033AE	503	ICD	27	70
CD4033AK	503	ICD	27	71
CD4038AD	503	ICD	27	96
CD4038AE	503	ICD	27	97
CD4038AK	503	ICD	27	98
CH3439	469	C	19	20
CH3440	469	C	19	21
CH3053	469	C	19	22
CH2270	469	C	19	23
CH2102	469	C	19	24
CH2405	469	C	19	25
CH5321	469	C	19	26
CH5320	469	C	19	27
CH4037	469	C	19	28
CH4036	469	C	19	29
CH5323	469	C	19	30
CH5322	469	C	19	21
CR101	84	R	18	29
CR102	84	R	18	28
CR103	84	R	18	27
CR104	84	R	18	26
CR105	84	R	18	25
CR106	84	R	18	24
CR107	84	R	18	23
CR108	84	R	18	22
CR109	84	R	18	21
CR110	84	R	18	20
CR201	86	R	18	30
CR203	86	R	18	31
CR204	86	R	18	32
CR206	86	R	18	33
CR208	86	R	18	34
CR210	86	R	18	35
CR212	86	R	18	36
CR273/ 8008	100	R	18	87
CR274/ 827A	100	R	18	88
CR275/ 866A	100	R	18	89
CR280	86	R	18	37
CR301	60	R	18	38
CR302	60	R	18	39
CR303	60	R	18	40
CR304	60	R	18	41
CR305	60	R	18	42
CR306	60	R	18	43
CR307	60	R	18	44
CR311	60	R	18	45
CR312	60	R	18	46
CR313	60	R	18	47
CR314	60	R	18	48
CR315	60	R	18	49
CR316	60	R	18	50
CR317	60	R	18	51
CR321	60	R	18	52
CR322	60	R	18	53
CR323	60	R	18	54
CR324	60	R	18	55
CR325	60	R	18	56
CR331	60	R	18	57
CR332	60	R	18	58
CR333	60	R	18	59
CR334	60	R	18	60
CR335	60	R	18	61
CR341	60	R	18	62
CR342	60	R	18	63
CR343	60	R	18	64
CR344	60	R	18	65
CR351	60	R	18	66
CR352	60	R	18	67
CR353	60	R	18	68
CR354	60	R	18	69
CR401	***	R	18	70
CR402	***	R	18	71
CR403	***	R	18	72
CR404	***	R	18	73
CR405	***	R	18	74
CR406	***	R	18	75
CR407	***	R	18	76
CR408	***	R	18	77
CR409	***	R	18	78
CR501	***	R	18	79
CR502	***	R	18	80
CR503	***	R	18	81
CR504	***	R	18	82
CR505	***	R	18	83
CR506	***	R	18	84
HC1000	461	PHC	19	32
HC2000	506	PHC	19	33

Symbols for Index

C	Chips
D	Diodes
DA	Diacs
ICD	Digital Integrated Circuits
E	Emitters
FET	MOS Field-Effect Transistors
ICL	Linear Integrated Circuits
PHC	Power Hybrid Circuits
R	Rectifiers
SCR	Silicon Controlled Rectifiers (Thyristor)
T	Transistors (Bipolar)
TRI	Triacs (Thyristor)

Footnotes to Index Section

* Reverse-polarity version available.

† For renewal use only.

\+ MIL-SPEC Type available.

*** For data, refer to "Thyristor/ Rectifier catalog", THC-500A

** Limited to extent of inventory. For new equipment design, refer to low-voltage COS/MOS types.

†† For new equipment design, refer to A suffix type.

++ Limited to the extent of inventory. For information contact COS/MOS Marketing Solid State Division, Somerville, N.J. 08876.

▲ For data refer to IC Product Guide, CDL-820D

Solid State Selection Guides

The Selection Charts classify RCA solid-state devices by category, function, and performance level. These charts are intended for an initial selection of devices for a specific application. Data, in condensed form, for commercially available solid-state devices are found in the data section of this Product Guide. Complete data on a particular type are given in its respective data bulletin.

Transistors

Audio-Frequency Applications— Linear Operations

	Page No.	Line No.
Small Signal — Class A		
Silicon N-P-N		
Dissipations up to 5 W		
2N697	13	64
2N699	13	65
2N718A	13	58
2N720A	13	59
2N1613	13	66
2N1711	16	67
2N1893	13	68
2N2102	13	74
2N2270	13	75
2N2405	13	76
2N2895	13	60
2N2896	13	61
2N2897	13	62
2N3053	13	77
40084	13	63
Power—Class A, AB, B		
Silicon N-P-N		
Dissipations up to 5 W		
2N697	13	64
2N699	13	65
2N1479†	11	67
2N1480†	11	68
2N1481†	11	69
2N1482†	11	70
2N1613	13	66
2N1700†	11	71
2N1711	13	67
2N1893	13	68
2N2102	13	74
2N2270	13	75
2N2405	13	76
2N2895	13	60
2N2896	13	61
2N2897	13	62
2N3053	13	77
40084	13	63
40309	13	78
40311	13	79
40314	13	80
40315	13	81
40317	13	82
40320	13	83
40321	12	114
40323	13	84
40326	13	85
40327	12	115
40360	13	86
40361	13	87
40366+	13	88
40367+	11	72
40385+	13	3
40407	13	56
40408	13	57
40539	13	89
40611	13	91
40616	13	92
40625	13	71
40628	13	72
40635	13	90
Dissipations above 5W to 29W		
2N1483†	12	8
2N1484†	12	9
2N1485†	12	10
2N1486†	12	11
2N1701†	12	12
2N3054†	12	13
2N3439	12	117
2N3440	12	118
2N3441†	12	14
2N4063	12	119
2N4064	13	1
2N5320	13	97
2N5321	13	98
2N5784†	12	5
2N5785†	12	6
2N5786†	12	7
40250†	12	16
40250V1	12	16
40310	12	17
40312	12	18
40316	12	19
40324	12	20
40346	13	2
40347†	12	2
40347V1*†	12	2
40347V2†	12	2
40348†	12	3
40348V1*†	12	3
40348V2†	12	3
40349†	12	4
40349V1*†	12	4
40349V2†	12	4
40368+	12	15
40372*	11	73
40373*	12	1
40374*	12	116
40375*	13	93
40389*	13	70
40390*	12	113
40392	13	94
40409*	13	69
40412	13	4
40544	13	95
40594	13	99
Dissipations above 29W to 100W		
2N1487†	12	50
2N1488†	12	51
2N1489†	12	52
2N1490†	12	53
2N1702†	12	54
2N3263	13	20
2N3264	13	21
2N3583	13	8
2N3584	13	9
Dissipation above 29 W to 100 W(cont't)		
2N3585	13	10
2N3878	13	100
2N3879	13	101
2N4240	13	11
2N4347†	12	63
2N5239†	13	25
2N5240†	13	26
2N5293*†	12	21
2N5294†	12	22
2N5295*†	12	23
2N5296†	12	24
2N5297*†	12	25
2N5298†	12	26
2N5490*†	12	38
2N5491†	12	39
2N5492*†	12	40
2N5493†	12	41
2N5494*†	12	42
2N5495†	12	43
2N5496*†	12	44
2N5497†	12	45
2N6098†	12	55
2N6099*†	12	56
2N6100†	12	57
2N6101*†	12	58
2N6102†	12	59
2N6103*†	12	60
40313	13	12
40318	13	13
40322	13	14
40328	13	15
40364	13	103
40369†+	12	61
40464	13	103
40466	15	48
40613	12	27
40618	12	28
40621	12	29
40622	12	30
40624	12	46
40627	12	47
40629	12	31
40630	12	32
40631	12	33
40632	12	48
Dissipation above 100W to 150W		
2N2015	12	73
2N2016	12	74
2N2338†	12	75
2N3055†	12	65
2N3265	13	34
2N3266	13	35
2N3442†	12	68
2N3771†	12	76
2N3772†	12	77
2N3773†	12	78
2N4348†	12	71
2N5575†	12	81
2N5576†	12	82
2N5577†	12	83
2N5578†	12	84
2N5579†	12	85
Dissipation above 100W to 150W(cont't)		
2N5580†	12	86
40251†	12	69
40325	12	70
40363	12	66
40411†	12	79
40636	12	67
Silicon P-N-P		
Dissipation to 40W		
2N4036	13	48
2N4037	13	49
2N4314	13	50
2N5322	13	53
2N5323	13	54
2N5415	12	87
2N5416	12	88
2N5781	12	89
2N5782	12	90
2N5783	12	91
2N5954	12	101
2N5955	12	102
2N5956	12	103
40319	13	43
40362	13	44
40391*	13	42
40394*	13	51
40406	13	40
40410	13	41
40537	13	45
40538	13	46
40595	13	55
40634	13	47
Dissipation to 300 mW		
Germanium P-N-P		
2N1183	11	43
2N1183A	11	44
2N1183B	11	45
2N1184	11	46
2N1184A	11	47
2N1184B	11	48
2N1905	11	62
2N1906	11	63
2N2147	11	50
2N2148	11	51
2N2869/ 2N301	11	64
2N2870/ 2N301A	11	65
40022	11	52
40050	11	53
40051	11	54
40254	11	55
40421	11	66
40462	11	56
40612	11	57
40623	11	58
40626	11	59
High-Voltage Germanium P-N-P		
2N3730	11	49
2N3731	11	39
2N3732	11	38
2N4346	11	40
40439	11	41
40440	11	42
Silicon N-P-N		
2N2102	13	74
2N2405	13	76
2N3263	13	20
2N3264	13	21
2N3265	13	34
2N3266	13	35
2N3439	12	117
2N3440	12	118
2N3441†	12	14
2N3442†	12	68
2N3583	13	8
2N3584	13	9
2N3585	13	10
2N3773	12	78
2N3878	13	100
2N3879	13	101
2N4063	12	119
2N4064	13	1
Silicon N-P-N (cont'd.)		
2N4240	13	11
2N4347†	12	63
2N4348†	12	71
2N5239†	13	25
2N5240†	13	26
40346	13	2
40349†	12	4
40349V1*†	12	4
40349V2†	12	4
40366+	13	88
40373*	12	1
40374*	12	116
40375*	13	93
40385+	13	3
40390*	12	113

Radio-Frequency Applications— Linear and Class C Operation

	Page No.	Line No.
Small Signal		
MOS FET Silicon N-Channel Single Gate		
3N128	11	15
3N138	11	11
3N139	11	12
3N142	11	10
3N143	11	16
3N152	11	17
3N153	11	18
3N154	11	19
40467A	11	20
40468A	11	13
40559A	11	14
MOS FET Silicon N-Channel Dual Gate		
3N140	11	21
3N141	11	22
3N159	11	23
40600	11	24
3N187	11	29
3N200	11	30
40601	11	25
40602	11	26
40603	11	27
40604	11	28
40673	11	31
40819	11	32
40820	11	33
40821	11	34
40822	11	35
40823	11	36
40841	11	37
Silicon N-P-N f_T to 700 MHz (Typ.)		
2N2102	13	74
2N2270	13	75
2N2405	13	76
2N2895	13	60
2N2896	13	61
2N2897	13	62
2N3053	13	77
40084	13	63
f_T to 1200 MHz (Min.)		
2N918	11	1
2N2857	11	6
2N3478	11	2
2N3600	11	5
2N3839	11	7
2N5109	14	29
40294†	11	19
Power Silicon N-P-N		
2N1491	14	2
2N1492	14	3
2N1493	14	4
2N2631	14	5
2N2876	14	7
2N3118	14	8
2N3229	14	10
2N3375	14	11
2N3553	14	12
2N3632	14	14
2N3733	14	15
2N3866	14	17
2N4012	14	18
2N4427	14	19
2N4440	14	20
2N4932	14	21
2N4933	14	22
2N5016	14	23
2N5070	14	24
2N5071	14	25
2N5090	14	26
2N5102	14	27
2N5108	14	28
2N5470	14	31
2N5913	14	32
2N5914	14	33
2N5915	14	34
2N5916	14	35
2N5917	14	36
2N5918	14	37
2N5919A	14	38
2N5920	14	39
2N5921	14	40
2N5992	14	41
2N5993	14	42
2N5994	14	43
2N5995	14	44
2N5996	14	45
2N6093	14	46
2N6105	14	47
40080	14	48
40081	14	49

Solid State Selection Guides (cont'd)

	Page No.	Line No.
Silicon N-P-N (cont'd.)		
40082	14	50
40279+	14	51
40280	14	52
40281	14	53
40282	14	54
40290	14	55
40291	14	56
40292	14	57
40294	14	58
40305+	14	59
40306+	14	60
40307+	14	61
40340	14	62
Silicon N-P-N (cont't)		
40341	14	63
40446	14	64
40578	14	65
40577+	14	66
40578+	14	67
40581	14	68
40582	14	69
40605+	14	70
40606	14	71
40608	14	72
40836	14	74
40837	14	75
40893	14	76

Switching and Pulse Applications Computer and Power

	Page No.	Line No.
Computer – Low Level Medium Speed Logic Switching Silicon N-P-N		
f_T to 175 MHz (Min.)		
2N697	13	64
2N699	13	65
2N718A	13	58
2N720A	13	59
2N1613	13	66
2N1711	13	67
2N1893	13	68
2N2102	13	74
2N2270	13	75
2N2405	13	76
2N2895	13	60
2N2896	13	61
2N2897	13	62
2N3053	13	77
2N3262	13	96
2N3263	13	20
2N3264	13	21
2N3265	13	34
2N3266	13	35
2N3878	13	100
2N3879	13	101
2N5202	13	102
f_T to 175 MHz (Min.) (cont'd.)		
2N5320	13	97
2N5321	13	98
40084	13	63
40375*	13	93
40389*	13	10
40392	13	94
Silicon P-N-P		
f_T to 60 MHz (Min.)		
2N4036	13	48
2N4037	13	49
2N4314	13	50
2N5322	13	53
2N5323	13	54
40391*	13	42
40394*	13	51
High-Speed Logic Switching Silicon N-P-N		
f_T to 600 MHz (Min.)		
2N3119	14	9

Chopper and Multiplex Service

	Page No.	Line No.
MOS FET Silicon N-Channel-Single Gate		
3N138	11	11
3N153	11	18
Power – Low Speed Switching Silicon N-P-N Dissipations to 8.75 W		
2N697	13	64
2N699	13	65
2N718A	13	58
2N720A	13	59
2N1479†	11	67
2N1480†	11	68
2N1481†	11	69
2N1482†	11	70
2N1613	13	66
2N1700†	11	71
2N1711	13	67
2N1893	13	68
2N2102	13	74
2N2270	13	75
2N2405	13	76
Dissipations to 8.75W (cont'd.)		
2N2895	13	60
2N2896	13	61
2N2897	13	62
2N3053	13	77
2N3262	13	96
40250V1*	12	16
40309	13	78
40311	13	79
40314	13	80
40315	13	81
40317	13	82
40320	13	83
40321	12	114
40323	13	84
40326	13	85
40327	12	115
40346V1*	13	2
40347*	12	2
40347V1*†	12	2
40348†	12	3
40348*†	12	3
40349†	12	4
40349V1*†	12	4
Dissipations to 8.75 W (cont'd.)		
40360	13	86
40361	13	87
40366+	13	88
40367+	11	72
40372*	11	73
40374*	12	116
40375*	13	93
40385	13	3
40389*	13	10
40390*	12	113
40392	13	94
40407	13	56
40408	13	57
40409*	13	69
40412V1*	13	4
Dissipations above 8.75 W to 50 W		
2N1483†	12	8
2N1484†	12	9
2N1485†	12	10
2N1486†	12	11
2N1701†	12	12
2N3054†	12	13
2N3439	12	117
2N3440	12	118
2N3441†	12	14
2N3583	13	8
2N3584	13	9
2N3585	13	10
2N3878	13	100
2N3879	13	101
2N4063	12	119
2N4064	13	1
2N4240	13	11
2N5293*†	12	21
2N5294†	12	22
2N5295*†	12	23
2N5296†	12	24
2N5297*†	12	25
2N5298†	12	26
2N5490*†	12	38
2N5491†	12	39
2N5492*†	12	40
2N5493†	12	41
2N5494*†	12	42
2N5495†	12	43
2N5496*†	12	44
2N5497†	12	45
2N6098†	12	55
2N6099*†	12	56
2N6100†	12	57
2N6101*†	12	58
2N6102†	12	59
2N6103*†	12	60
40250†	12	16
40310	12	17
40312	12	18
40313	13	12
40316	12	19
40318	13	13
40322	13	14
40324	12	20
40328	13	15
40346	13	2
40346V2	13	2
40347V2†	12	2
40348V2†	12	3
40349V2†	12	4
40364	13	103
40368+	12	15
40412	13	4
40412V2	13	4
Dissipations above 50 W to 150 W		
2N1487†	12	50
2N1488†	12	51
2N1489†	12	52
2N1490†	12	53
2N1702†	12	54
2N2015	12	73
2N2016	12	74
2N2338†	12	75
2N3055†	12	65
2N3263	13	20
2N3264	13	21
2N3265	13	34
2N3266	13	35
2N3442†	12	68
2N3771†	12	76
2N3772†	12	77
2N3773†	12	78
2N4347†	12	63
2N4348!	12	71
2N5038	13	104
2N5039	13	105
2N5240	13	26
2N5575†	12	81
2N5576†	12	82
2N5577†	12	83
2N5578†	12	84
2N5579†	12	85
2N5580†	12	86
2N6032	13	108
2N6033	13	109
40251†	12	69
40325	12	70
40363	12	66
40369†+	12	61
40411†	12	79
Silicon P-N-P Dissipations to 7 W		
40319	13	43
40362	13	44
40391*	13	42
40394*	13	51
40406	13	40
40410*	13	41
Germanium P-N-P Dissipation to 30 W		
2N1183	11	43
2N1183A	11	44
2N1183B	11	45
2N1184	11	46
2N1184A	11	47
2N1184B	11	48
2N1905	11	62
2N1906	11	63
High-Voltage Switching Silicon N-P-N Collector-to-Emitter Voltage to 350 V (Max.)		
2N3439	12	117
2N3440	12	118
2N3441†	12	14
2N3442†	12	68
2N3583	13	8
2N3584	13	9
2N3585	13	10
2N3773	14	15
2N4063	12	119
2N4064	13	1
2N4240	13	11
2N4347†	12	63
Collector-to-Emitter Voltage to 350 V (Max.) (cond't.)		
2N4348†	12	71
2N5239†	13	25
2N5240†	13	26
2N5804	13	31
2N5805	13	32
2N5838	13	27
2N5839	13	28
2N5840	13	29
40346	13	2
40346V1*	13	2
40346V1*	13	2
40349†	12	4
40349V1*†	12	4
40349V2†	12	4
40373*	12	1
Collector-to-Emitter Voltage to 350 V (Max.) (cont'd.)		
40374*	12	116
40385+	13	3
40390*	12	113
40412	13	4
40412V1*	13	4
40412V2	13	4
Silicon P-N-P Collector-to-Emitter Sustaining Voltage to – 300 V (Max.)		
2N5415	12	87
2N5416	12	88

Thyristors

Triacs

	Page No.	Line No.
Low-Voltage Operation 50 & 60 Hz		
2N5754	14	81
40525	14	82
40528	14	83
40531	14	77
40534	14	79
40684	14	80
40693	14	84
40696	14	85
40766	14	86
40767	14	78
120-V Line Operation 50 & 60 Hz		
2N5441	15	26
2N5444	15	27
2N5567	15	9
2N5569	15	10
2N5571	15	14
2N5573	15	15
2N5755	14	94
40429	14	102
40431	15	1
40485	15	2
40502	14	100
40509	14	91
40511	14	92
40526	14	95
40529	14	96
40532	14	87
40535	14	89
40575	15	16
40638	15	3
40660	15	21
40662	15	22
40668	15	7
40685	14	90
40688	15	28
40691	14	97
40694	14	98
40697	14	99
40699	15	29
40702	15	30
40705	15	23
40707	15	24
40711	15	17
40713	15	68
40715	15	19
40717	15	11
40719	15	21
40721	15	8
40725	15	4
120-V Line Operation 50 & 60 Hz (cont'd.)		
40727	15	5
40729	15	6
40731	14	93
40733	14	101
40761	14	88
40799	15	13
40802	15	20
40805	15	25
240-V Line Operation 50 & 60 Hz		
2N5442	15	77
2N5445	15	78
2N5568	15	60
2N5570	15	61
2N5572	15	65
2N5574	15	66
2N5756	15	38
40430	15	46
40432	15	47
40486	15	48
40503	15	44
40510	15	35
40512	15	36
40527	15	39
40530	15	40
40533	15	31
40536	15	33
40576	15	67
40639	15	49
40661	15	72
40663	15	73
40664	15	50
40667	15	51
40669	15	58
40686	15	34
40689	15	79
40692	15	41
40695	15	42
40698	15	43
40700	15	80
40703	15	81
40706	15	74
40708	15	75
40712	15	68
40714	15	69
40716	15	70
40718	15	62
40720	15	63
40722	15	59
40723	15	52
40724	15	53

Solid State Selection Guides (cont'd)

	Page No.	Line No.
240-V Line Operation 50 & 60 Hz (cont'd.)		
40726	15	54
40728	15	55
40730	15	56
40732	15	37
40734	15	45
40762	15	32
40800	15	64
40803	15	71
40842	15	57
High-Voltage Operation 50 & 60 Hz		
2N5443	15	95
2N5446	15	96
2N5757	15	83
40611	13	91
40672	15	91
40687	15	82
40690	15	97
40701	15	98
40704	15	99
40709	15	92
40710	15	93
40795	15	84
40796	15	85
40797	15	87
40798	15	88
40801	15	86
40804	15	89
40807	15	94

Thyristors

SCRs

	Page No.	Line No.
Low-Voltage Operation 50 & 60 Hz		
2N681	16	20
2N682	16	21
2N683	16	22
2N684	16	23
2N1842A	16	13
2N1843A	16	14
2N1844A	16	15
2N1845A	16	16
2N3650	16	24
2N3668	16	12
2N3870	16	25
2N3897	16	50
40680	16	27
40737	16	9
40741	16	10
40745	16	11
40749	16	17
40753	16	18
40757	16	19
40810	16	7
40867	16	8
120-V Line Operation 50 & 60 Hz		
2N685	16	47
2N1846A	16	43
2N3228	16	33
2N3528	16	29
2N3651	16	48
2N3669	16	42
2N3871	16	44
2N3897	16	50
40378	16	35
40504	16	28
40507	16	30
40553	16	34
40654	16	36
40656	16	37
40658	16	32
40681	16	51

	Page No.	Line No.
400 Hz Service V_{DROM}=200 V		
40769	15	100
40771	15	101
40773	15	102
40775	15	103
40777	15	104
40779	15	105
40781	15	106
40783	15	107
40785	15	108
40787	15	109
40789	15	110
40791	15	111
40793	15	112
400 Hz Service V_{DROM}=400 V		
40770	15	113
40772	15	114
40774	15	115
40776	15	116
40778	15	117
40780	15	118
40782	15	119
40784	16	1
40786	16	2
40788	16	3
40790	16	4
40792	16	5
40794	16	6
240-V Line Operation 50 & 60 Hz		
2N3653	16	72
2N3670	16	66
2N3872	16	73
2N3898	16	74
40379	16	59
40505	16	52
40508	16	54
40554	16	58
40655	16	60
40657	16	61
40659	16	56
40682	16	75
40739	16	59
40743	16	64
40747	16	65
40751	16	68
40755	16	69
40759	16	70
40812	16	55
40869	16	62
High-Voltage Operation 50 & 60 Hz		
2N686	16	97
2N687	17	1
2N689	17	2
2N690	17	3
2N1847A	16	91
2N1848A	16	92
2N1850A	16	93
2N3652	17	4
2N3873	17	5
2N4101	16	80
2N4102	16	77
2N4103	16	90
40216	17	7
40506	16	76
40555	16	81
40640	16	82
40641	16	83

	Page No.	Line No.
High-Voltage Operation 50 & 60 Hz (cont'd.)		
40683	17	8
40735	17	9
40740	16	87
40744	16	88
40748	16	89
40752	16	94
40756	16	95
40760	16	96
40768	16	84
40813	16	78
40833	16	85
40834	16	86
40835	16	79

Rectifiers

	Page No.	Line No.
Silicon Low Current I_0 to 2A		
1N440B	17	13
1N441B	17	14
1N442B	17	15
1N443B	17	16
1N444B	17	26
1N445B	17	24
1N536	17	17
1N537	17	18
1N538	17	19
1N539	19	20
1N540	17	21
1N547	17	22
1N1095	17	23
1N1763A	17	37
1N1764A	17	38
1N2858A	17	39
1N2859A	17	40
1N2860A	17	41
1N2861A	17	42
1N2862A	17	43
1N2863A	17	44
1N2864A	17	45
1N3193	17	29
1N3194	17	30
1N3195	17	31
1N3196	17	27
1N3253	17	32
1N3254	17	33
1N3255	17	34
1N3256	17	28
1N3563	17	25
1N3754	17	10
1N3755	17	11
1N3756	17	12
1N5211	17	46
1N5212	17	47
1N5213	17	48
1N5214	17	35
1N5215	17	49
1N5216	17	50
1N5217	17	51
1N5218	17	36
1N5391	17	62
1N5392	17	63
1N5393	17	64
1N5394	17	65
1N5395	17	66
1N5396	17	67
1N5397	17	68
1N5398	17	69
1N5399	17	70
40266	17	71
40267	17	72
40642	17	52
40643	17	53
40644	17	54

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Low Current I_0 to 2A (cont'd)		
44001	17	55
44002	17	56
44003	17	57
44004	17	58
44005	17	59
44006	17	60
44007	17	61
High Current I_0 to 12A to 40 A		
1N248C	18	6
1N249C	18	7
1N250C	18	8
1N1183A	18	13
1N1184A	18	14
1N1186A	18	15
1N1187A	18	16
1N1188A	18	17
1N1189A	18	18
1N1190A	18	19
1N1195A	18	9
1N1196A	18	10
1N1197A	18	11
1N1198A	18	12
1N1199A	17	93
1N1200A	17	94
1N1202A	17	95
1N1203A	17	96
1N1204A	17	97
1N1205A	17	98
1N1206A	17	99
1N1341B	17	78
1N1342B	17	79
1N1344B	17	80
1N1345B	17	81
1N1346B	17	82
1N1347B	17	83
1N1348B	17	84
1N1612	17	73
1N1613	17	74
1N1614	17	75
1N1615	17	76
1N1616	17	77
40108	17	85
40109	17	86
40110	17	87
40111	17	88
40112	17	89
40113	17	90
40114	17	91
40115	17	92
40208	17	100
40209	17	101
40210	18	1
40211	18	2
40212	18	3
40213	18	4
40214	18	5
High-Voltage Rectifier Assemblies		
CR101	18	29
CR102	18	28
CR103	18	27
CR104	18	26
CR105	18	25
CR106	18	24
CR107	18	23
CR108	18	22
CR109	18	21
CR110	18	20
CR201	18	30
CR203	18	31

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High-Voltage Rectifier Assemblies (cont'd.)		
CR204	18	32
CR206	18	33
CR208	18	34
CR210	18	35
CR212	18	36
CR280	18	37
CR301	18	38
CR302	18	39
CR303	18	40
CR304	18	41
CR305	18	42
CR306	18	43
CR307	18	44
CR311	18	45
CR312	18	46
CR313	18	47
CR314	18	48
CR315	18	49
CR316	18	50
Bridge Rectifiers		
Single-phase, full-wave		
CR401	18	70
CR402	18	71
CR403	18	72
CR404	18	73
CR405	18	74
CR406	18	75
CR407	18	76
CR408	18	77
CR409	18	78
Three-phase, full-wave		
CR501	18	79
CR502	18	80
CR503	18	81
CR504	18	82
CR505	18	83
CR506	18	84
High-Voltage Rectifiers for Replacement		
CR273/ 8008	18	87
CR274/ 827A	18	88
CR275/ 866A/ 3825/ 3829	18	89
Controlled-Avalanche Rectifiers		
40808	18	85
40809	18	86

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Diacs For triggering Triacs		
1N5411	19	4
40583	19	5
Diodes Damper Diodes		
1N4785	19	3
40442	—	—
Compensating Diodes		
1N2326	19	1
40428	19	2
Power Hybrid Circuits, Linear Amplifier		
HC1000	19	32
Emitters Paper Tape, Card Reader		
40367R	19	6
40843R	19	7
40844R	19	8
Lasers		
1W & 2W		
40856	19	9
40857	19	10
5W		
40858	19	11
40859	19	12
40860	19	13
10W		
40861	19	14
40862	19	15
40863	19	16
15W		
40864	19	17
40865	19	18
40866	19	19

Footnotes to Selection Guides

* For printed-circuit-board applications.

† Hometaxial base type.

\+ High-reliability type.

*† For printed-circuit-board applications, Hometaxial base type.

†+ Hometaxial base type, High-reliability type.

Signal Transistors

3 MHz to 300 MHz (HF–VHF) P_T to 5 W — Si NPN

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{CE}(sat) max. V	P_T max. W	h_{FE} @ I_C min	h_{FE} @ I_C mA	G_{pe} @ f dB	G_{pe} @ f MHz	f_T or f_{hfb} min. MHz
1	2N918	83	TO-72	–	0.2	–	–	–	–	600
2	2N3478	77	TO-104	–	–	–	–	12	470	710
3	2N5189	296	TO-39**	1	5	35	500	–	–	250
4	2N5262	313	TO-39**	0.8	5	20	1000	–	–	250

300 MHz to 1000 MHz (UHF) P_T to 0.3 W — Si NPN

LINE No.	RCA Type No.	Data File No.	Pkg.	P_T max W	G_{pe} @ f dB	G_{pe} @ f MHz	NF @ f max. dB	NF @ f max. MHz	f_T min. MHz
5	2N3600	83	TO-72	0.2	17	200	4.5	200	850
6	2N2857	61	TO-72	0.3	12.5	450	4.5	450	1000
7	2N3839	229	TO-72	0.3	12.5	450	3.4	450	1000
8	2N5179	288	TO-72	0.3	15	200	4.5	200	1000
9	40294	202	TO-72	0.3	12.5	450	4.5	450	1000

MOS Field-Effect Transistors

30 MHz to 300 MHz (VHF) P_T to 0.4 W — Si N-Channel Single-Gate

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{DS} max. V	P_T max. W	G_{PS} @ f typ. dB	NF @ f typ. dB	NF @ f typ. f MHz	C_{rss} typ. pF
10	3N142	286	TO-72	20	0.1	24	4	100	0.12
11	3N138	283	TO-72	35	0.15	g_{fs}=6000μmho typ			0.18
12	3N139	284	TO-72	35	0.15	14	4	200	0.2
13	40468A	323	TO-72	20	0.375	24	3.5	100	0.12
14	40559A	323	TO-72	20	0.375	21	–	100	0.15
15	3N128	309	TO-72	20	0.4	16	3.5	200	0.13
16	3N143	309	TO-72	20	0.4	13.5	–	100	0.12
17	3N152	314	TO-72	20	0.4	17	2.5	200	0.12
18	3N153	320	TO-72	20	0.4	g_{fs}=10000μmho typ.			0.34
19	3N154	335	TO-72	20	0.4	20	3.5	200	0.12
20	40467A	325	TO-72	20	0.4	20	3.5	200	0.12

P_T to 0.4 W — Si N-Channel Dual-Gate

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{DS} max. V	P_T max. W	G_{PS} @ f typ. dB	NF @ f typ. dB	NF @ f typ. f MHz	C_{rss} typ. pF
21	3N140	285	TO-72	20	0.4	18	3.5	200	0.03
22	3N141	285	TO-72	20	0.4	17	–	200	0.03
23	3N159	326	TO-72	20	0.4	18	2.5	200	0.03
24	40600	333	TO-72	20	0.4	20	5	200	0.03

30 MHz to 300 MHz (VHF) P_T to 0.4 W — Si N-Channel Dual-Gate

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{DS} max. V	P_T max. W	G_{PS} @ f typ. dB	NF @ f typ. dB	NF @ f typ. f MHz	C_{rss} typ. pF
25	40601	333	TO-72	20	0.4	14	–	200	0.03
26	40602	333	TO-72	20	0.4	35	–	44	0.03
27	40603	334	TO-72	20	0.4	26	2.5	100	0.03
28	40604	334	TO-72	20	0.4	21	–	10.7	0.03

P_T to 0.33 W — Si N-Channel Dual-Gate Protected

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{DS} max. V	P_T max. W	G_{PS} @ f typ. dB	NF @ f typ. dB	NF @ f typ. f MHz	C_{rss} typ. pF
29	3N187	436	TO-72	20	0.33	18	3.5	200	0.02
30	3N200	437	TO-72	20	0.33	12.5	4.5	400	0.02
31	40673	381	TO-72	20	0.33	18	3.5	200	0.02
32	40819	463	TO-72	25	0.33	18	3.5	200	0.02
33	40820	464	TO-72	20	0.33	17	4.5	200	0.02
34	40821	464	TO-72	20	0.33	11	–	200	0.02
35	40822	465	TO-72	20	0.33	24	2	100	0.02
36	40823	465	TO-72	20	0.33	18	–	100	0.025
37	40841	489	TO-72	–	–	32	0.46		0.2

Power Transistors

0.03 MHz to 0.3 MHz (f_T) P_T to 10 W — Ge PNP

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{CEO} max. V	P_T max. W	I_C max. A	h_{FE} @ I_C	h_{FE} @ I_C A
38	2N3732	205	TO-3	–100††	3	–3	35 min.	–0.7
39	2N3731	205	TO-3	–320††	5	–10	15 min.	–6
40	2N4346	206	TO-3	–320††	5	–10	25 min.	–6
41	40439	205	TO-3	–320††	5	–10	15 min.	–6
42	40440	205	TO-3	–200††	5	–10	15 min.	–6
43	2N1183	4	TO-8	–20	7.5	–3	20 - 60	–0.4
44	2N1183A	4	TO-8	–30	7.5	–3	20 - 60	–0.4
45	2N1183B	4	TO-8	–40	7.5	–3	20 - 60	–0.4
46	2N1184	4	TO-8	–20	7.5	–3	40 - 120	–0.4
47	2N1184A	4	TO-8	–30	7.5	–3	40 - 120	–0.4
48	2N1184B	4	TO-8	–40	7.5	–3	40 - 120	–0.4
49	2N3730	205	TO-3	–200††	10	–3	35 min.	–0.7

P_T 12.5 W to 30 W — Ge PNP

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{CEO} max. V	P_T max. W	I_C max. A	h_{FE} @ I_C	h_{FE} @ I_C A
50	2N2147		TO-3	–50	12.5	–5	100 - 300	–1
51	2N2148		TO-3	–40	12.5	–5	60 - 100	–1
52	40022		TO-3	–32††	12.5	–5	38 min.	–1
53	40050		TO-3	–40	12.5	–5	50 min.	–1
54	40051		TO-3	–50	12.5	–5	50 min.	–1
55	40254		TO-3	–32††	12.5	–5	30 min.	–1
56	40462		TO-3	–40	12.5	–5	50 min.	–1

P_T 12.5 W to 30 W (cont'd)

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{CEO} max. V	P_T max. W	I_C max. A	h_{FE} @ I_C	h_{FE} @ I_C A
57	40612	358	TO-3	–25††	12.5	–5	30 - 150	–1
58	40623	358	TO-3	–45††	12.5	–5	50 - 170	–1
59	40626	358	TO-3	–55††	12.5	–5	50 - 170	–1
60	2N301	53	TO-3	–50	30	–10	50 - 165	–1
61	2N301A	53	TO-3	–50	30	–10	50 - 165	–1
62	2N1905	17	TO-3	–50	30	–6	50 - 150	–1
63	2N1906	17	TO-3	–60	30	–6	75 - 250	–1
64	2N2869	53	TO-3	–50	30	–10	50 - 165	–1
65	2N2870	53	TO-3	–50	30	–10	50 - 165	–1

0.3 MHz to 3 MHz (f_T) P_T to 12.5 W — Ge PNP

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{CEO} max. V	P_T max. W	I_C max. A	h_{FE} @ I_C	h_{FE} @ I_C A
66	40421	115	TO-3	–50	12.5	–5	62 - 175	–1

P_T to 25 W — Si NPN

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{CEO} max. V	P_T max. W	I_C max. A	h_{FE} @ I_C	h_{FE} @ I_C A
67	2N1479	135	TO-5	40	5	1.5	20 - 60	0.2
68	2N1480	135	TO-5	55	5	1.5	20 - 60	0.2
69	2N1481	135	TO-5	40	5	1.5	35 - 100	0.2
70	2N1482	135	TO-5	55	5	1.5	35 - 100	0.2
71	2N1700	141	TO-5	40	5	1	20 - 80	0.1
72	40367	215	TO-5	55	5	1.5	35 - 100	0.2
73	40372	433	TO-66†	55	5.8	4	25 - 100	0.5

Power Transistors (cont'd)

0.3 MHz to 3 MHz (f_T) P_T to 25W (cont'd) — **Si NPN**

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{CEO} max. V	P_T max. W	I_C max. A	h_{FE} @ I_C A
1	40373	146	TO-66†	140	5.8	3	20 - 80 0.5
2	40347	88	TO-5	40	8.75	1.5	25 - 100 0.45
3	40348	88	TO-5	65	8.75	1.5	30 - 125 0.3
4	40349	88	TO-5	140	8.75	1.5	30 - 125 0.15
5	2N5784	413	TO-5	65	10	3.5	20 - 100 1
6	2N5785	413	TO-5	50	10	3.5	20 - 100 1.2
7	2N5786	413	TO-5	40	10	3.5	20 - 100 1.6
8	2N1483	137	TO-8	40	25	3	20 - 60 0.75
9	2N1484	137	TO-8	55	25	3	20- 60 0.75
10	2N1485	137	TO-8	40	25	3	35 - 100 0.75
11	2N1486	137	TO-8	55	25	3	35 - 100 0.75
12	2N1701	141	TO-8	40	25	2.5	20 - 80 0.3
13	2N3054	433	TO-66	55	25	4	25 - 100 0.5
14	2N3441	146	TO-66	140	25	3	25 - 100 0.5
15	40368	215	TO-8	55	25	3	35 - 100 0.75

0.3 MHz to 3 MHz (f_T) P_T 29W to 50W — **Si NPN**

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{CEO} max. V	P_T max. W	I_C max. A	h_{FE} @ I_C A
16	40250	112	TO-66	40	29	4	25 - 100 1.5
17	40310	78	TO-66	35	29	4	20 - 120 1
18	40312	78	TO-66	60††	29	4	20 - 120 1
19	40316	78	TO-66	40††	29	4	20 - 120 1
20	40324	78	TO-66	35	29	4	20 - 120 1
21	2N5293	322	TO-220AA	40	36	4	30 - 120 1
22	2N5294	322	TO-220AB	70	36	4	30 - 120 0.5
23	2N5295	322	TO-220AA	70	36	4	30 - 120 0.5
24	2N5296	322	TO-220AB	40	36	4	30 - 120 1
25	2N5297	322	TO-220AA	60	36	4	20 - 80 1.5
26	2N5298	322	TO-220AB	60	36	4	20 - 80 1.5
27	40613	358	TO-220AA	25	36	4	30 - 120 1
28	40618	358	TO-220AA	30	36	4	30 - 120 1
29	40621	358	TO-220AA	32	36	4	25 - 100 1.5
30	40622	358	TO-220AA	40	36	4	25 - 100 1.5
31	40629	358	TO-220AA	35††	36	4	20 - 70 1
32	40630	358	TO-220AA	40††	36	4	20 - 70 1.5
33	40631	358	TO-220AA	45††	36	4	20 - 70 2
34	2N6077	492	TO-66	300	45	7	12 - 70 1.2
35	2N6078	492	TO-66	275	45	7	12 - 70 1.2
36	2N6079	492	TO-66	375	45	7	12 - 70 1.2
37	40851	498	TO-66	375	45	7	12 min. 1.2
38	2N5490	353	TO-220AB	40	50	7	20 - 100 2
39	2N5491	353	TO-220AA	40	50	7	20 - 100 2
40	2N5492	353	TO-220AB	55	50	7	20 - 100 2.5
41	2N5493	353	TO-220AA	55	50	7	20 - 100 2.5
42	2N5494	353	TO-220AB	40	50	7	20 - 100 3
43	2N5495	353	TO-220AA	40	50	7	20 - 100 3
44	2N5496	353	TO-220AB	70	50	7	20 - 100 3.5
45	2N5497	353	TO-220AA	70	50	7	20 - 100 3.5
46	40624	358	TO-220AA	45	50	6	20 - 100 2.5
47	40627	358	TO-220AA	55	50	6	20 - 100 2.5
48	40632	358	TO-220AA	60††	50	6	20 - 70 3
49	40816	–	TO-220AA	45††	50	4	35 - 150 2

P_T 75 W to 100 W — **Si NPN**

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{CEO} max. V	P_T max. W	I_C max. A	h_{FE} @ I_C A
50	2N1487	139	TO-3	40	75	6	15 - 45 1.5
51	2N1488	139	TO-3	55	75	6	15 - 45 1.5
52	2N1489	139	TO-3	40	75	6	25 - 75 1.5
53	2N1490	139	TO-3	55	75	6	25 - 75 1.5
54	2N1702	141	TO-3	40	75	5	15 - 60 0.8
55	2N6098	485	TO-220AA	60	75	10	20 - 80 4
56	2N6099	485	TO-220AB	60	75	10	20 - 80 4
57	2N6100	485	TO-220AA	70	75	10	20 - 80 5
58	2N6101	485	TO-220AB	70	75	10	20 - 80 5
59	2N6102	485	TO-220AA	40	75	16	15 - 60 8
60	2N6103	485	TO-220AB	40	75	16	15 - 60 8

P_T 75 W to 100 W (cont'd) — **Si NPN**

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{CEO} max. V	P_T max. W	I_C max. A	h_{FE} @ I_C A
61	40369	215	TO-3	55	75	6	25 - 75 1.5
62	40884	–	TO-220AB	65	75	10	20 - 120 4
63	2N4347	207	TO-3	120	100	5	20 - 70 2

P_T 115 W to 300W — **Si NPN**

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{CEO} max. V	P_T max. W	I_C max. A	h_{FE} @ I_C A
64	40854	498	TO-3	300	110	15	10 min. 10
65	2N3055	434	TO-3	60	115	15	20 - 70 4
66	40363	78	TO-3	70††	115	15	20 - 70 4
67	40636	358	TO-3	95††	115	15	20 - 70 4
68	2N3442	207	TO-3	140	117	10	20 - 70 3
69	40251	112	TO-3	40	117	15	15 - 60 8
70	40325	78	TO-3	35	117	15	15 - 60 8
71	2N4348	213	TO-3	120	120	10	15 - 60 5
72	411	510	TO-3	200	125	7	30 - 90 1
73	2N2015	12	TO-36	50	150	10	15 - 60 5
74	2N2016	12	TO-36	65	150	10	15 - 60 5
75	2N2338	141	TO-36	40	150	7.5	15 - 60 3
76	2N3771	140	TO-3	40	150	30	15 - 60 15
77	2N3772	140	TO-3	60	150	20	15 - 60 10
78	2N3773	213	TO-3	140	150	16	15 - 60 8
79	40411	219	TO-3	90††	150	30	35 - 100 4
80	40883	–	TO-3	100	250	16	30 - 150 6
81	2N5575	359	TO-3**	50	300	80	10 - 40 60
82	2N5576	359	TO-3**	50	300	80	10 - 40 60
83	2N5577	359	TO-3**	50	300	80	10 - 40 60
84	2N5578	359	TO-3**	70	300	60	10 - 40 40
85	2N5579	359	TO-3**	70	300	60	10 - 40 40
86	2N5580	359	TO-3**	70	300	60	10 - 40 40

3 MHz to 30 MHz (f_T) P_T 10 W to 75 W — **Si PNP**

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{CEO} max. V	P_T max. W	I_C max. A	h_{FE} @ I_C A
87	2N5415	336	TO-5	−200	10	−1	30 - 150 −0.05
88	2N5416	336	TO-5	−300	10	−1	30 - 120 −0.05
89	2N5781	413	TO-5	−65	10	−3.5	20 - 100 −1
90	2N5782	413	TO-5	−50	10	−3.5	20 - 100 −1.2
91	2N5783	413	TO-5	−40	10	−3.5	20 - 100 −1.6
92	2N6211	507	TO-66	−225	20	−2	10 - 100 −1
93	2N6212	507	TO-66	−300	20	−2	10 - 100 −1
94	2N6213	507	TO-66	−350	20	−2	10 - 100 −1
95	2N6106	488	TO-220AA	−70	40	−7	30 - 150 −2
96	2N6107	488	TO-220AB	−70	40	−7	30 - 150 −2
97	2N6108	488	TO-220AA	−50	40	−7	30 - 150 −2.5
98	2N6109	488	TO-220AB	−50	40	−7	30 - 150 −2.5
99	2N6110	488	TO-220AA	−30	40	−7	30 - 150 −3
100	2N6111	488	TO-220AB	−30	40	−7	30 - 150 −3
101	2N5954	435	TO-66	−75	40	−6	20 - 100 −2
102	2N5955	435	TO-66	−60	40	−6	20 - 100 −2.5
103	2N5956	435	TO-66	−40	40	−6	20 - 100 −3
104	40872	–	TO-220AB	−100	40	−7	50 - 250 −1
105	40874	–	TO-220AB	−70	40	−7	30 - 250 −2
106	40876	–	TO-220AB	−50	40	−7	20 - 120 −3
107	40878	–	TO-220AB	−65	75	−10	20 - 120 −4
108	40880	–	TO-220AB	−85	75	−10	20 - 120 −5
109	40882	–	TO-220AB	−40	75	−10	15 - 60 −8

P_T to 20 W — **Si NPN**

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{CEO} max. V	P_T max. W	I_C max. A	h_{FE} @ I_C A
110	40885	508	Plas.*+	300	1.4	1	30 - 190 0.02
111	40886	508	Plas.*+	350	1.4	1	30 - 150 0.02
112	40887	508	Plas.*+	400	1.4	1	40 - 160 0.02
113	40390	64	TO-5†	250	3.5	1	40 - 160 0.02
114	40321	78	TO-5	300††	5	0.5	25 - 200 0.02
115	40327	78	TO-5	300††	5	0.5	40 - 250 0.02
116	40374	138	TO-66†	175	5.8	2	40 min. 0.1
117	2N3439	64	TO-5	350	10	1	40 - 160 0.02
118	2N3440	64	TO-5	250	10	1	40 - 160 0.02
119	2N4063	64	TO-5*†	350	10	1	40 - 160 0.02

Power Transistors (cont'd)

P_T to 20 W (cont'd) — **Si NPN**

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{CEO} max. V	P_T max. W	I_C max. A	h_{FE} @ I_C A
1	2N4064	64	TO-5*†	250	10	1	40 - 160 0.02
2	40346	211	TO-5	175††	10	1	25 min. 0.01
3	40385	215	TO-5	350	10	1	40 - 160 0.02
4	40412	211	TO-5	250	10	1	40 min. 0.03
5	2N6175	508	Plas.	300	20	1	30 - 190 0.02
6	2N6176	508	Plas.	350	20	1	30 - 150 0.02
7	2N6177	508	Plas.	400	20	1	40 - 160 0.02

P_T 35 W to 125 W — **Si NPN**

8	2N3583	138	TO-66	175	35	2	10 min.	1
9	2N3584	138	TO-66	250	35	2	25 - 100	1
10	2N3585	138	TO-66	300	35	2	25 - 100	1
11	2N4240	138	TO-66	300	35	2	30 - 150	0.75
12	40313	78	TO-66	300	35	2	40 - 250	0.1
13	40318	78	TO-66	300	35	2	40 min.	0.02
14	40322	78	TO-66	300	35	2	40 min.	0.02
15	40328	78	TO-66	300	35	2	20 min.	1
16	40850	498	TO-66	300	35	2	25 min.	0.75
17	40871	–	TO-220AB	100	40	7	50 - 250	1
18	40873	–	TO-220AB	70	40	7	30 - 150	2
19	40875	–	TO-220AB	50	40	7	20 - 120	3
20	2N3263	54	Rad.	90	84	25	25 - 75	15
21	2N3264	54	Rad.	60	84	25	20 - 80	15
22	40877	–	TO-220A	65	75	10	20 - 120	4
23	40879	–	TO-220A	85	75	10	20 - 120	5
24	40881	–	TO-220A	40	75	10	15 - 60	8
25	2N5239	321	TO-3	225	100	5	20 - 80	2
26	2N5240	321	TO-3	300	100	5	20 - 80	2
27	2N5838	410	TO-3	250	100	5	10 - 50	3
28	2N5839	410	TO-3	275	100	5	10 - 50	2
29	2N5840	410	TO-3	350	100	5	10 - 50	2
30	40852	498	TO-3	350	100	7	12 min.	1.2
31	2N5804	407	TO-3	225	110	8	10 - 100	5
32	2N5805	407	TO-3	300	110	8	10 - 100	5
33	40853	498	TO-3	300	110	10	10 min.	5
34	2N3265	54	TO-63	90	125	25	25 - 75	15
35	2N3266	54	TO-63	60	125	25	20 - 80	15
36	410	509	TO-3	200	125	7	30 - 90	1
37	413	511	TO-3	325	125	7	20 - 80	0.5
38	423	512	TO-3	325	125	7	30 - 90	1
39	431	513	TO-3	325	125	7	15 - 35	2.5

30 MHz to 300 MHz (f_T) P_T to 25 W — **Si PNP**

40	40406	215	TO-5	–50	1	–0.7	30 - 200	–0.1
41	40410	219	TO-5†	–90††	3	–0.7	50 - 250	–0.15
42	40391	216	TO-5†	–40	3.5	–1	50 - 250	–0.15
43	40319	78	TO-5	–40	5	–0.7	35 - 200	–0.05
44	40362	78	TO-5	–70††	5	–0.7	35 - 200	–0.05
45	40537	302	TO-5	–55††	5	–0.7	50 - 300	–0.05
46	40538	302	TO-5	–55††	5	–0.7	15 - 90	–0.5
47	40634	358	TO-5	–75††	5	–0.7	50 - 250	–0.15
48	2N4036	216	TO-5	–65	7	–1	40 - 140	–0.15
49	2N4037	216	TO-5	–40	7	–1	50 - 250	–0.15
50	2N4314	216	TO-5	–65	7	–1	50 - 250	–0.15
51	40394	216	TO-5†	–40	7	–1	50 - 250	–0.15
52	40815	–	TO-5	–40	7	–1	70 - 250	–0.15
53	2N5322	325	TO-5	–75	10	–2	30 - 130	–0.5
54	2N5323	325	TO-5	–50	10	–2	40 - 250	–0.5
55	40595	358	TO-5	–95††	10	–2	70 - 350	–0.3

P_T to 10 W — **Si NPN**

56	40407	219	TO-5	50	1	0.7	40 - 200	0.001
57	40408	219	TO-5	90	1	0.7	40 - 200	0.001

P_T to 10 W (cont'd) — **Si NPN**

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{CEO} max. V	P_T max. W	I_C max. A	h_{FE} @ I_C A
58	2N718A	36	TO-18	32	1.8	1	40 - 120 0.15
59	2N720A	36	TO-18	80	1.8	1	40 - 120 0.15
60	2N2895	143	TO-18	65	1.8	1	40 - 120 0.15
61	2N2896	143	TO-18	90	1.8	1	60 - 200 0.15
62	2N2897	143	TO-18	45	1.8	1	50 - 200 0.15
63	40084	40	TO-18	40	1.8	1	50 - 250 0.15
64	2N697	16	TO-5	40††	2	0.5	40 - 120 0.15
65	2N699	22	TO-5	80††	2	0.5	40 - 120 0.15
66	2N1613	106	TO-5	50††	3	1	40 - 120 0.15
67	2N1711	26	TO-5	50††	3	1	100 - 300 0.15
68	2N1893	34	TO-5	80	3	0.5	40 - 120 0.15
69	40409	219	TO-5†	90††	3	0.7	50 - 250 0.15
70	40389	432	TO-5†	40	3.5	0.7	50 - 200 0.15
71	40625	358	TO-5†	45	3.5	1	100 - 300 0.15
72	40628	358	TO-5†	55	3.5	1	100 - 300 0.15
73	2N3119	44	TO-5	80	4	0.5	50 - 200 0.1
74	2N2102	106	TO-5	65	5	1	40 - 200 0.15
75	2N2270	24	TO-5	45	5	1	50 - 200 0.15
76	2N2405	34	TO-5	90	5	1	60 - 200 0.15
77	2N3053	432	TO-5	40	5	0.7	50 - 200 0.15
78	40309	78	TO-5	18	5	0.7	70 - 350 0.05
79	40311	78	TO-5	30	5	0.7	70 - 350 0.05
80	40314	78	TO-5	40	5	0.7	70 - 350 0.05
81	40315	78	TO-5	35	5	0.7	70 - 350 0.05
82	40317	78	TO-5	40	5	0.7	40 - 200 0.01
83	40320	78	TO-5	40	5	0.7	40 - 200 0.01
84	40323	78	TO-5	18	5	0.7	70 - 350 0.05
85	40326	78	TO-5	40	5	0.7	40 - 200 0.01
86	40360	78	TO-5	70	5	0.7	40 - 200 0.01
87	40361	78	TO-5	70††	5	0.7	70 - 350 0.05
88	40366	215	TO-5	65	5	1	40 - 120 0.15
89	40539	303	TO-5	55††	5	0.7	15 - 90 0.5
90	40635	358	TO-5	75††	5	0.7	50 - 250 0.15
91	40611	358	TO-5	25	5	0.7	70 - 500 0.15
92	40616	358	TO-5	32	5	0.7	25 - 100 1.5
93	40375	299	TO-66†	50	5.8	7	50 - 200 0.5
94	40392	432	TO-5*†	40	7	0.7	50 - 200 0.15
95	40544	303	TO-5*†	50††	7	0.7	35 - 200 0.05
96	2N3262	56	TO-5	80	8.75	1.5	40 min. 0.5
97	2N5320	325	TO-5	75	10	2	30 - 130 0.5
98	2N5321	325	TO-5	50	10	2	40 - 250 0.5
99	40594	358	TO-5	95††	10	2	70 - 350 0.3

P_T 35 W & 140 W — **Si NPN**

100	2N3878	299	TO-66	50	35	7	50 - 200	0.5
101	2N3879	299	TO-66	75	35	7	20 - 80	4
102	2N5202	299	TO-66	75††	35	4	10 - 100	4
103	40364	78	TO-66	60††	35	7	35 - 275	0.5
104	2N5038	367	TO-3	90	140	20	50 - 200	2
105	2N5039	367	TO-3	75	140	20	30 - 150	2
106	2N5671	383	TO-3	90	140	30	20 - 100	15
107	2N5672	383	TO-3	120	140	30	20 - 100	15
108	2N6032	462	TO-3**	90	140	50	10 - 50	50
109	2N6033	462	TO-3**	120	140	40	10 - 50	40

RF Power Transistors-Silicon NPN

LINE No.	RCA Type No.	Data File No.	Package	Collector Supply Voltage V	Frequency MHz
1	2N918	83	TO-72	6-15(V_{CE})	200
2	2N1491	10	TO-5	20	70
3	2N1492	10	TO-5	30	70
4	2N1493	10	TO-5	50	70
5	2N2631	32	TO-39	28	50
6	2N2857	61	TO-72	6-15(V_{CE})	1000 (f_T)
7	2N2876	32	TO-60	28	50
8	2N3118	42	TO-5	28	50
9	2N3119	44	TO-5	28	250 (f_T)
10	2N3229	50	TO-60	50	50
11	2N3375	386	TO-60	28	400
12	2N3553	386	TO-39	28	175
13	2N3600	83	TO-72	6-15(V_{CE})	200
14	2N3632	386	TO-60	28	175
15	2N3733	72	TO-60	28	400
16	2N3839	229	TO-72	Low-noise version of 2N2857	
17	2N3866	80	TO-39	28	400
18	2N4012	90	TO-60	28	1000 (tripler
19	2N4427	228	TO-39	12	175
20	2N4440	217	TO-60	28	400
21	2N4932	249	TO-60	13.5	88
22	2N4933	249	TO-60	24	88
23	2N5016	255	TO-60	28	400
24	2N5070	268	TO-60	28	30
25	2N5071	269	TO-60	24	76
26	2N5090	270	TO-60	28	400
27	2N5102	279	TO-60	24	136
28	2N5108	280	TO-39	28	1000
29	2N5109	281	TO-39	Class A linear amplifier f_T = 1200 MHz @ 50mA	
30	2N5179	288	TO-72	6(V_{CE})	1000
31	2N5470	350	TO-215AA	28	2000
32	2N5913	423	TO-39	12	470
33	2N5914	424	TO-216AA	12	470
34	2N5915	424	TO-216AA	12	470
35	2N5916	425	TO-216AA	28	400
36	2N5917	425	HF-31	28	400
37	2N5918	448	TO-216AA	28	400
38	2N5919A	505	TO-216AA	28	400
39	2N5920	440	TO-215AA	28	2000
40	2N5921	427	TO-201AA	28	2000
41	2N5992	451	TO-216AA	12.5	88
42	2N5993	452	TO-2 6AA	12.5	88
43	2N5994	453	TO-216AA	12.5 & 28	118 & 175
44	2N5995	454	TO-216AA	12.5	175
45	2N5996	455	TO-216AA	12.5	175
46	2N6093	392	TO-217AA	28	30
47	2N6105	504	TO-216AA	28	400
48	40080	301	TO-5	12	27
49	40081	301	TO-5	12	27
50	40082	301	TO-39	12	27
51	40279	46	TO-60	Ultra-high reliability version of 2N3375	
52	40280	68	TO-39	13.5	175
53	40281	68	TO-60	13.5	175
54	40282	68	TO-60	13.5	175
55	40290	70	TO-39	12.5	135
56	40291	70	TO-60	12.5	135
57	40292	70	TO-60	12.5	135
58	40294	202	TO-72	30	450
59	40305	144	TO-39	28	175
60	40306	144	TO-60	28	400
61	40307	144	TO-60	28	175
62	40340	74	TO-60	13.5	50
63	40341	74	TO-60	24	50
64	40446	301	TO-39	Flanged version of 40082	
65	40518	277	TO-72	High-reliability version of 2N3839	
66	40577	297	TO-5	High-reliability version of 2N3118	
67	40578	298	TO-39	High-reliability version of 2N3866	
68	40581	301	TO-39	12	27
69	40582	301	TO-39	Flanged version of 40581	
70	40605	389	TO-39	Prem. High-reliability version of 2N3553	
71	40606	—	TO-60	High-reliability version of 2N3733	
72	40608	356	TO-39	Class A linear amplifier f_T = 700 MHz @ 50 mA	
73	40637	355	TO-52	12	156 (doubler)
74	40836	497	TO-215AA	21	2000
75	40837	497	TO-215AA	28	2000
76	40893	514	HF-36	12.5	470

Thyristors-Silicon Triacs

Low-Voltage Operation 50 & 60 Hz V_{DROM} = 100V

LINE No.	RCA Type No.	Data File No.	Pkg.	$I_{T(RMS)}$ @ T_C max. A	°C	I_{GT} max. 1+, 111 mA	1–111+ mA
77	40531	470	TO-5†	1.6	25	3	3
78	40767	431	TO-5†	1.6	25	4	4
79	40534	470	TO-5†	1.9	25	10	10
80	40684	414	TO-5†	1.9	25	25	40
81	2N5754	414	TO-5	2.5	70	25	40
82	40525	470	TO-5	2.5	60	3	3
83	40528	470	TO-5	2.5	70	10	10
84	40693	406	TO-5†	2.5	70	45	45
85	40696	406	TO-5	2.5	70	45	45
86	40766	431	TO-5	2.5	60	4	4
120-V-Line Operation 50 & 60 Hz V_{DROM} = 200 V							
87	40532	470	TO-5†	1.6	25	3	3

120-V Line Operation 50 & 60 Hz V_{DROM} = 200 V (cont'd)

LINE No.	RCA Type No.	Data File No.	Pkg.	$I_{T(RMS)}$ @ T_C max. A	°C	I_{GT} max. 1+, 111 mA	1-111+ mA
88	40761	431	TO-5†	1.6	25	4	4
89	40535	470	TO-5†	1.9	25	10	10
90	40685	414	TO-5†	1.9	25	25	40
91	40509	352	TO-5†	2.2	25	25	40
92	40511	477	TO-5†	2.2	Integral Trigger		
93	40731	406	TO-5†	2.3	75	45	45
94	2N5755	414	TO-5	2.5	70	25	40
95	40526	470	TO-5	2.5	60	3	3
96	40529	470	TO-5	2.5	70	10	10
97	40691	431	TO-5	2.5	60	4	4
98	40694	406	TO-5†	2.5	70	45	45
99	40697	406	TO-5	2.5	70	45	45
100	40502	351	TO-66	3.3	25	25	40
101	40733	406	TO-5†*	4.2	75	45	45
102	40429	351	TO-66	6	75	25	40

Thyristors-Silicon Triacs (cont'd)

120-V Line Operation 50 & 60 Hz V_{DROM} = 200 V (cont'd.)

LINE No.	RCA Type No.	Data File No.	Pkg.	$I_{T(RMS)}$ @ T_C max. A	°C	I_{GT} max. 1+ 111 mA	1-111+ mA
1	40431	477	TO-5	6	Integral Trigger		
2	40485	352	TO-5	6	75	25	40
3	40638	352	TO-5†	6	60	25	40
4	40725	406	TO-5	6	75	45	45
5	40727	406	TO-66	6	75	45	45
6	40729	406	TO-66†	6	75	45	45
7	40668	364	TO-220AB	8	80	25	60
8	40721	406	TO-220AB	8	80	45	45
9	2N5567	457	PF	10	85	25	40
10	2N5569	457	Stud	10	85	25	40
11	40717	406	PF	10	85	45	45
12	40719	406	Stud	10	85	45	45
13	40799	457	ISO-S	10	85	25	40
14	2N5571	458	PF	15	80	50	80
15	2N5573	458	Stud	15	80	50	80
16	40575	300	TO-66	15	70	30	80
17	40711	406	PF	15	80	45	45
18	40713	406	Stud	15	80	45	45
19	40715	406	TO-66	15	70	45	45
20	40802	458	ISO-S	15	75	50	80
21	40660	459	PF	30	65	50	80
22	40662	459	Stud	30	60	50	80
23	40705	406	PF	30	65	45	45
24	40707	406	Stud	30	60	45	45
25	40805	459	ISO-S	30	55	50	80
26	2N5441	456	PF	40	70	50	80
27	2N5444	456	Stud	40	65	50	80
28	40688	456	ISO-S	40	60	50	80
29	40699	406	PF	40	70	45	45
30	40702	406	Stud	40	65	45	45

240-V-Line Operation 50 & 60 Hz V_{DROM} = 400 V

31	40533	470	TO-5†	1.6	25	3	3
32	40762	431	TO-5†	1.6	25	4	4
33	40536	470	TO-5†	1.9	25	10	10
34	40686	414	TO-5†	1.9	25	25	40
35	40510	352	TO-5†	2.2	25	25	40
36	40512	477	TO-5†	2.2	25	Integral Trigger	
37	40732	406	TO-5†	2.3	75	45	45
38	2N5756	414	TO-5	2.5	70	25	40
39	40527	470	TO-5	2.5	60	3	3
40	40530	470	TO-5	2.5	70	10	10
41	40692	431	TO-5	2.5	60	4	4
42	40695	406	TO-5†	2.5	70	45	45
43	40698	406	TO-5	2.5	70	45	45
44	40503	351	TO-66	3.3	25	25	40
45	40734	406	TO-5+*	4.2	75	45	45
46	40430	351	TO-66	6	75	25	40
47	40432	477	TO-5	6	75	Integral Trigger	
48	40486	352	TO-5	6	75	25	40
49	40639	352	TO-5†	6	60	25	40
50	40664	375	TO-5	6	75	50	–
51	40667	375	TO-5	6	75	50	–
52	40723	406	TO-5	6	75	45	45
53	40724	406	TO-5†	6	75	45	45
54	40726	406	TO-5	6	75	45	45
55	40728	406	TO-66	6	75	45	45
56	40730	406	TO-66†	6	75	45	45
57	40842	493	TO-220AB	6	80	80	–
58	40669	364	TO-220AB	8	80	25	60
59	40722	406	TO-220AB	8	80	45	45
60	2N5568	457	PF	10	85	25	40
61	2N5570	457	Stud	10	85	25	40

240-V Line Operation 50 & 60 Hz V_{DROM} = 400 V (cont'd)

LINE No.	RCA Type No.	Data File No.	Pkg.	$I_{T(RMS)}$ @ T_C max. A	°C	I_{GT} max. 1+, 111 mA	1-111+ mA
62	40718	406	PF	10	85	45	45
63	40720	406	Stud	10	85	45	45
64	40800	457	ISO-S	10	85	25	40
65	2N5572	458	PF	15	80	50	80
66	2N5574	458	Stud	15	80	50	80
67	40576	300	TO-66	15	70	30	80
68	40712	406	PF	15	80	45	45
69	40714	406	Stud	15	80	45	45
70	40716	406	TO-66	15	70	45	45
71	40803	458	ISO-S	15	75	50	80
72	40661	459	PF	30	65	50	80
73	40663	459	Stud	30	60	50	80
74	40706	406	PF	30	65	45	45
75	40708	406	Stud	30	60	45	45
76	40806	459	ISO-S	30	55	50	80
77	2N5442	456	PF	40	70	50	80
78	2N5445	456	Stud	40	65	50	80
79	40689	456	ISO-S	40	60	50	80
80	40700	406	PF	40	70	45	45
81	40703	406	Stud	40	65	45	45

High-Voltage Operation 50 & 60 Hz V_{DROM} = 600V

82	40687	414	TO-5†	1.9	25	25	40
83	2N5757	414	TO-5	2.5	70	25	40
84	40795	457	PF	10	85	25	40
85	40796	457	Stud	10	85	25	40
86	40801	457	ISO-S	10	85	25	40
87	40797	458	PF	15	80	50	80
88	40798	458	Stud	15	80	50	80
89	40804	458	ISO-S	15	75	50	80
90	40671	459	PF	30	65	50	80
91	40672	459	Stud	30	60	50	80
92	40709	406	PF	30	65	45	45
93	40710	406	Stud	30	60	45	45
94	40807	459	ISO-S	30	55	50	80
95	2N5443	456	PF	40	70	50	80
96	2N5446	456	Stud	40	65	50	80
97	40690	456	ISO-S	40	60	50	80
98	40701	406	PF	40	70	45	45
99	40704	406	Stud	40	65	45	45

400 Hz Service V_{DROM} = 200 V

100	40769	441	TO-5	0.5	90	10	10
101	40771	441	TO-5	0.5	90	25	40
102	40773	442	TO-5**	2.5	90	25	40
103	40775	443	PF	6	90	50	80
104	40777	443	STUD	6	90	50	80
105	40779	443	PF	10	85	50	80
106	40781	443	STUD	10	85	50	80
107	40783	443	PF	15	80	50	80
108	40785	443	STUD	15	80	50	80
109	40787	487	PF	25	85	80	120
110	40789	487	STUD	25	80	80	120
111	40791	487	PF	40	70	80	120
112	40793	487	STUD	40	65	80	120

400 Hz Service V_{DROM} = 400 V

113	40770	441	TO-5	0.5	90	10	10
114	40772	441	TO-5	0.5	90	25	40
115	40774	442	TO-5**	2.5	90	25	40
116	40776	443	PF	6	90	50	80
117	40778	443	Stud	6	90	50	80
118	40780	443	PF	10	85	50	80
119	40782	443	Stud	10	85	50	80

Thyristors-Silicon Triacs (cont'd)

400 Hz Service V_{DROM} = 400 V (cont'd)

LINE No.	RCA Type No.	Data File No.	Pkg.	$I_{T(RMS)}$ @ TC max. A	°C	I_{GT} max. 1+, 111 mA	1-111+ mA
1	40784	443	PF	15	80	50	80
2	40786	443	Stud	15	80	50	80
3	40788	487	PF	25	85	80	120

400 Hz Service V_{DROM} = 400 V (cont'd)

LINE No.	RCA Type No.	Data File No.	Pkg.	$I_{T(RMS)}$ @ T_C max. A	°C	I_{GT} max. 1+, 111 mA	1-111+ mA
4	40790	487	Stud	25	80	80	120
5	40792	487	PF	40	70	80	120
6	40794	487	Stud	40	65	80	120

Thyristors-SCRs

Low-Voltage Operation 50 & 60 Hz V_{DROM} = 25 V to 150 V

LINE No.	RCA Type No.	Data File No.	Pkg.	$I_{T(RMS)}$ @ T_C max. A	°C	I_{GT} typ. mA	V_{GT} typ. V
7	40810	473	TO-5	2.5	75	5	0.9
8	40867	501	TO-220AB	8	80	15	1.5
9	40737	417	PF	10	85	6	0.9
10	40741	417	Stud	10	85	6	0.9
11	40745	417	ISO-S	10	85	6	0.9
12	2N3668	116	TO-3	12.5	80	20	1.5
13	2N1842A	28	TO-48	16	80	80	3.5
14	2N1843A	28	TO-48	16	80	80	3.5
15	2N1844A	28	TO-48	16	80	80	3.5
16	2N1845A	28	TO-48	16	80	80	3.5
17	40749	418	PF	20	75	8	1.1
18	40753	418	Stud	20	75	8	1.1
19	40757	418	ISO-S	20	75	8	1.1
20	2N681	96	TO-48	25	65	50	3
21	2N682	96	TO-48	25	65	50	3
22	2N683	96	TO-48	25	65	50	3
23	2N684	96	TO-48	25	65	50	3
24	2N3650	408	TO-48	35	40	80	1.5
25	2N3870	94	PF	35	65	25	1.1
26	2N3896	94	Stud	35	65	25	1.1
27	40680	409	ISO-S	35	60	25.	1.1
120-V Line Operation 50 & 60 Hz V_{DROM} = 200 V							
28	40504	266	TO-66†	1.7	25	8	1.2
29	2N3528	114	TO-8	2	25	8	1.2
30	40507	486	TO-5**	2	25	8	1.2
31	40811	473	TO-5	2.5	75	5	0.9
32	40658	496	TO-5†	3.3	25	6	0.65
33	2N3228	114	TO-66	5	75	8	1.2
34	40553	306	TO-66	5	60	15	1.8
35	40378	486	TO-5**	7	65	8	1.2
36	40654	496	TO-5**	7	60	6	0.65
37	40656	496	TO-5+*	7	50	6	0.65
38	40868	501	TO-22AB	8	80	15	1.5
39	40738	417	PF	10	85	6	0.9
40	40742	417	Stud	10	85	6	0.9
41	40746	417	ISO-S	10	85	6	0.9
42	2N3669	116	TO-3	12.5	80	20	1.5
43	2N1846A	28	TO-48	16	80	80	3.5
44	40750	418	PF	20	75	8	1.1
45	40754	418	Stud	20	75	8	1.1
46	40758	418	ISO-S	20	75	8	1.1
47	2N685	96	TO-48	25	65	50	3
48	2N3651	408	TO-48	35	40	80	1.5
49	2N3871	94	PF	35	65	25	1.1
50	2N3897	94	Stud	35	65	25	1.1
51	40681	409	ISO-S	35	60	25	1.1
240-V Line Operation 50 & 60 Hz V_{DROM} = 400V							
52	40505	266	TO-66†	1.7	25	8	1.2
53	2N3529	114	TO-8	2	25	8	1.2

240-V Line Operation 50 & 60 Hz V_{DROM} = 400V (cont'd)

LINE No.	RCA Type No.	Data File No.	Pkg.	$I_{T(RMS)}$ @ T_C max. A	°C	I_{GT} typ. mA	V_{GT} typ. V
54	40508	486	TO-5**	2	25	8	1.2
55	40812	473	TO-5	2.5	75	5	0.9
56	40659	496	TO-5†	3.3	25	6	0.65
57	2N3525	114	TO-66	5	75	8	1.2
58	40554	306	TO-66	5	60	15	1.8
59	40379	486	TO-5**	7	65	8	1.2
60	40655	496	TO-5**	7	60	6	0.65
61	40657	496	TO-5+*	7	50	6	0.65
62	40869	501	TO-220AB	8	80	15	1.5
63	40739	417	PF	10	75	6	0.9
64	40743	417	Stud	10	85	6	0.9
65	40747	417	ISO-S	10	85	6	0.9
66	2N3670	116	TO-3	12.5	80	20	1.5
67	2N1849A	28	TO-48	16	80	80	3.5
68	40751	418	PF	20	75	8	1.1
69	40755	418	Stud	20	75	8	1.1
70	40759	418	ISO-S	20	75	8	1.1
71	2N688	96	TO-48	25	65	50	3
72	2N3653	408	TO-48	35	40	80	1.5
73	2N3872	94	PF	35	65	25	1.1
74	2N3898	94	Stud	35	65	25	1.1
75	40682	409	ISO-S	35	60	25	1.1
High-Voltage Operation 50 & 60 Hz V_{DROM} = 250 V to 750 V							
76	40506	266	TO-66†	1.7	25	8	1.2
77	2N4102	114	TO-8	2	25	8	1.2
78	40813	473	TO-5	2.5	75	5	0.9
79	40835	496	TO-5†	3.3	25	6	0.65
80	2N4101	114	TO-66	5	75	8	1.2
81	40555	306	TO-66	5	60	15	1.8
82	40640	354	TO-66	5	60	15	1.8
83	40641	354	TO-66	5	60	15	1.8
84	40768	376	TO-66	5	25	35	4
85	40833	496	TO-5**	7	60	6	0.65
86	40834	496	TO-5+*	7	50	6	0.65
87	40740	417	PF	10	85	6	0.9
88	40744	417	Stud	10	85	6	0.9
89	40748	417	ISO-S	10	85	6	0.9
90	2N4103	116	TO-3	12.5	80	20	1.5
91	2N1847A	28	TO-48	16	80	80	3.5
92	2N1848A	28	TO-48	16	80	80	3.5
93	2N1850A	28	TO-48	16	80	80	3.5
94	40752	418	PF	20	75	8	1.1
95	40756	418	Stud	20	75	8	1.1
96	40760	418	ISO-S	20	75	8	1.1
97	2N686	96	TO-48	25	65	50	3

Thyristors-SCRs (cont'd)

High Voltage Operation 50 & 60 Hz V_{DROM} = 250 V to 750 V (cont'd)

LINE No.	RCA Type No.	Data File No.	Pkg.	$I_{T(RMS)}$ @ T_C max. A	°C	I_{GT} typ. mA	V_{GT} typ. V
1	2N687	96	TO-48	25	65	50	3
2	2N689	96	TO-48	25	65	50	3
3	2N690	96	TO-48	25	65	50	3
4	2N3652	408	TO-48	35	40	80	1.5
5	2N3873	94	PF	35	65	25	1.1
6	2N3899	94	Stud	35	65	25	1.1
7	40216	247	TO-48	35	60	25	1.1
8	40683	409	ISO-S	35	60	25	1.1
9	40735	408	TO-48	35	40	80	1.5

Rectifiers-Silicon

Low Current I_O to 2A

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{RRM} max. V	I_O @ T_A max. A	°C
10	**1N3754**	**39**	**TO-1****	**100**	**0.125**	**65**
11	1N3755	39	TO-1**	200	0.125	65
12	1N3756	39	TO-1**	400	0.125	65
13	1N440B	5	DO-1	100	0.25	150
14	1N441B	5	DO-1	200	0.25	150
15	1N442B	5	DO-1	300	0.25	150
16	1N443B	5	DO-1	400	0.25	150
17	1N536	3	DO-1	50	0.25	150
18	1N537	3	DO-1	100	0.25	150
19	1N538	3	DO-1	200	0.25	150
20	1N539	3	DO-1	300	0.25	150
21	1N540	3	DO-1	400	0.25	150
22	1N547	3	DO-1	600	0.25	150
23	1N1095	3	DO-1	500	0.25	150
24	1N445B	5	DO-1	600	0.4	150
25	1N3563	41	DO-26	1000	0.4	75
26	1N444B	5	DO-1	500	0.425	150
27	1N3196	41	DO-26	800	0.5	75
28	1N3256	41	DO-26	800	0.5	75
29	1N3193	41	DO-26	200	0.75	75
30	1N3194	41	DO-26	400	0.75	75
31	1N3195	41	DO-26	600	0.75	75
32	1N3253	41	DO-26	200	0.75	75
33	1N3254	41	DO-26	400	0.75	75
34	1N3255	41	DO-26	600	0.75	75
35	1N5214	245	DO-26	800	0.75	75
36	1N5218	245	DO-26	800	0.75	75
37	1N1763A	89	DO-1	400	1	75
38	1N1764A	89	DO-1	500	1	75
39	1N2858A	91	DO-1	50	1	75
40	1N2859A	91	DO-1	100	1	75
41	1N2860A	91	DO-1	200	1	75
42	1N2861A	91	DO-1	300	1	75
43	1N2862A	91	DO-1	400	1	75
44	1N2863A	91	DO-1	500	1	75
45	1N2864A	91	DO-1	600	1	75
46	1N5211	245	DO-26	200	1	75
47	1N5212	245	DO-26	400	1	75
48	1N5213	245	DO-26	600	1	75
49	1N5215	245	DO-26	200	1	75
50	1N5216	245	DO-26	400	1	75
51	1N5217	245	DO-26	600	1	75
52	40642	354	DO-26	550	1	45
53	40643	354	DO-26	450	1	45
54	40644	354	DO-26	550	1	45
55	44001	495	Plas.	50	1	75
56	44002	495	Plas.	100	1	75
57	44003	495	Plas.	200	1	75

Low Current I_O to 2A (cont'd)

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{RRM} max. V	I_O @ T_A max. A	°C
58	44004	495	Plas.	400	1	75
59	44005	495	Plas.	600	1	75
60	44006	495	Plas.	800	1	75
61	44007	495	Plas.	1000	1	75
62	1N5391	478	DO-15	50	1.5	70
63	1N5392	478	DO-15	100	1.5	70
64	1N5393	478	DO-15	200	1.5	70
65	1N5394	478	DO-15	300	1.5	70
66	1N5395	478	DO-15	400	1.5	70
67	1N5396	478	DO-15	500	1.5	70
68	1N5397	478	DO-15	600	1.5	70
69	1N5398	478	DO-15	800	1.5	70
70	1N5399	478	DO-15	1000	1.5	70
71	40266	75	DO-1	100	2	105
72	40267	75	DO-1	200	2	105

High Current I_O to 12A

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{RRM} max. V	I_O @ T_C A	°C
73	1N1612	18	DO-4	50	5	135
74	1N1613	18	DO-4	100	5	135
75	1N1614	18	DO-4	200	5	135
76	1N1615	18	DO-4	400	5	135
77	1N1616	18	DO-4	600	5	135
78	1N1341B	58	DO-4	50	6	150
79	1N1342B	58	DO-4	100	6	150
80	1N1344B	58	DO-4	200	6	150
81	1N1345B	58	DO-4	300	6	150
82	1N1346B	58	DO-4	400	6	150
83	1N1347B	58	DO-4	500	6	150
84	1N1348B	58	DO-4	600	6	150
85	40108	48	DO-4	50	10	150
86	40109	48	DO-4	100	10	150
87	40110	48	DO-4	200	10	150
88	40111	48	DO-4	300	10	150
89	40112	48	DO-4	400	10	150
90	40113	48	DO-4	500	10	150
91	40114	48	DO-4	600	10	150
92	40115	48	DO-4	800	10	150
93	1N1199A	20	DO-4	50	12	150
94	1N1200A	20	DO-4	100	12	150
95	1N1202A	20	DO-4	200	12	150
96	1N1203A	20	DO-4	300	12	150
97	1N1204A	20	DO-4	400	12	150
98	1N1205A	20	DO-4	500	12	150
99	1N1206A	20	DO-4	600	12	150

High Current I_O 18A to 40A

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{RRM} max. V	I_O @ T_C A	°C
100	40208	120	DO-5	50	18	150
101	40209	120	DO-5	100	18	150

Rectifiers-Silicon (cont'd)

High Current I_O - 18A to 40A (cont'd)

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{RRM} max. V	I_O @ T_A max. A	°C
1	40210	120	DO-5	200	18	150
2	40211	120	DO-5	300	18	150
3	40212	120	DO-5	400	18	150
4	40213	120	DO-5	500	18	150
5	40214	120	DO-5	600	18	150
6	1N248C	6	DO-5	55	20	150
7	1N249C	6	DO-5	110	20	150
8	1N250C	6	DO-5	220	20	150
9	1N1195A	6	DO-5	300	20	150
10	1N1196A	6	DO-5	400	20	150
11	1N1197A	6	DO-5	500	20	150
12	1N1198A	6	DO-5	600	20	150
13	1N1183A	38	DO-5	50	40	150
14	1N1184A	38	DO-5	100	40	150
15	1N1186A	38	DO-5	200	40	150
16	1N1187A	38	DO-5	300	40	150
17	1N1188A	38	DO-5	400	40	150
18	1N1189A	38	DO-5	500	40	150
19	1N1190A	38	DO-5	600	40	150

High-Voltage Rectifier Assemblies

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{RRM} max. V	I_O @ T_A max. A	°C
20	CR110	84	A	10130	0.6	60
21	CR109	84	A	9495	0.6	60
22	CR108	84	A	8230	0.6	60
23	CR107	84	A	7595	0.6	60
24	CR106	84	A	6330	0.65	60
25	CR105	84	A	5065	0.7	60
26	CR104	84	A	4430	0.7	60
27	CR103	84	A	3165	0.825	60
28	CR102	84	A	2530	0.925	60
29	CR101	84	A	1265	1	60
30	CR201	86	B	1900	0.615	25
31	CR203	86	B	3165	0.615	25
32	CR204	86	B	4800	0.615	25
33	CR206	86	B	6330	0.615	25
34	CR208	86	B	8000	0.615	25
35	CR210	86	B	10000	0.615	25
36	CR212	86	B	12000	0.615	25
37	CR280	86	B	24000	0.615	25
38	CR301	60	C	2400	5	50
39	CR302	60	C	3600	5	50
40	CR303	60	C	4800	5	50
41	CR304	60	C	6000	5	50
42	CR305	60	C	7200	5	50
43	CR306	60	C	8400	5	50
44	CR307	60	C	9600	5	50
45	CR311	60	C	2400	9	50
46	CR312	60	C	3600	9	50
47	CR313	60	C	4800	9	50
48	CR314	60	C	6000	9	50
49	CR315	60	C	7200	9	50
50	CR316	60	C	8400	9	50
51	CR317	60	C	9600	9	50
52	CR321	60	C	2400	12	50
53	CR322	60	C	3600	12	50
54	CR323	60	C	4800	12	50
55	CR324	60	C	6000	12	50
56	CR325	60	C	7200	12	50
57	CR331	60	C	2400	17	50
58	CR332	60	C	3600	17	50
59	CR333	60	C	4800	17	50
60	CR334	60	C	6000	17	50

High-Voltage Rectifier Assemblies (cont'd)

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{RRM} max. V	I_O @ T_A max. A	°C
61	CR335	60	C	7200	17	50
62	CR341	60	C	2400	23	50
63	CR342	60	C	3600	23	50
64	CR343	60	C	4800	23	50
65	CR344	60	C	6000	23	50
66	CR351	60	C	2400	35	50
67	CR352	60	C	3600	35	50
68	CR353	60	C	4800	35	50
69	CR354	60	C	3600	35	50

Bridge Rectifier

Single-phase, full-wave

LINE No.	RCA Type No.	Data File No.	Pkg.	I_O A	$V_{OUT(AV)}$ V
70	CR401	–	C	18	200
71	CR402	–	C	18	400
72	CR403	–	C	18	800
73	CR404	–	C	34	200
74	CR405	–	C	34	400
75	CR406	–	C	34	800
76	CR407	–	C	70	200
77	CR408	–	C	70	400
78	CR409	–	C	70	800

Three-phase, full-wave

79	CR501	–	C	24	300
80	CR502	–	C	24	600
81	CR503	–	C	46	300
82	CR504	–	C	46	600
83	CR505	–	C	92	300
84	CR506	–	C	92	600

Controlled-Avalanche Rectifiers

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{RRM} max. V	I_O @ T_A max. A	°C	$V_{(BR)R-V}$ min.	max.
85	40808	449	DO-26	600	0.5	75	700	1100
86	40809	449	DO-26	800	0.5	75	900	1300

High-Voltage Rectifiers for Replacement

LINE No.	RCA Type No.	Data File No.	Pkg.	Replaces Tube Type(s)
87	CR273/8008	100	D	8008
88	CR274/872A	100	D	872A
89	CR275/866A/3825/3828/	100	D	866, 866A, 3B25, 3B28

Diodes-Germanium

LINE No.	RCA Type No.	Data File No.	Pkg.	V_{RRM} max. V	I_O @ T_A max. A	°C
1	1N2326	55	TO-1**	−1	0.8	85
2	40428	115	TO-1**	−0.5	0.8	85
3	1N4785	205	TO-3	−60	7	55

for Triggering Triacs Diacs

LINE No.	RCA Type No.	Data File No.	Pkg.	$V_{(BO)} - V$ min.	$V_{(BO)} - V$ max.	I_{pulse} max. A
4	1N5411	329	DO-26	29	35	2
5	40583	329	DO-26	27	37	2

Optoelectronic Devices

Room Temp. Devices

LINE No.	RCA Type No.	Data File No.	Pkg.	P_O@I_{FM} min. mW	mA	P_{OM}@I_{FM} typ. mW	A
6	40736R	422	OP-10	1	50	24	1
7	40843R	494	OP-10	1.5	50	30	1
8	40844R	494	OP-10	2.4	50	40	1

Injection-Laser Diodes - GaAs

LINE No.	RCA Type No.	Data File No.	Pkg.	P_{OM}@I_{FM} min. mW	A
9	40856	518	OP-3	1	10
10	40857	518	OP-3	2	10
11	40858	519	OP-3	3	25
12	40859	519	OP-3	5	25
13	40860	519	OP-3	5	20

Injection-Laser Diodes—GaAs (cont'd)
Room Temp. Devices

LINE No.	RCA Type No.	Data File No.	Pkg.	P_{OM}@I_{FM} min. mW	A
14	40861	520	OP-3	7	40
15	40862	520	OP-3	10	40
16	40863	520	OP-3	10	30
17	40864	521	OP-3	12	75
18	40865	521	OP-3	15	75
19	40866	521	OP-3	15	60

Power Hybrid Circuits

Chips Silicon Power — **NPN**

LINE No.	RCA Chip No.	Data File No.	RCA Family Transistor	V_{CEO} min. V	Characteristics h_{FE} @ I_C min. A
20	CH3439	469	2N3439	325	30	0.02
21	CH3440	469	2N3440	250	30	0.02
22	CH3053	469	2N3053	30	50	0.25
23	CH2270	469	2N2270	45	50	0.25
24	CH2102	469	2N2102	60	50	0.25
25	CH2405	469	2N2405	90	50	0.25
26	CH5321	469	2N5321	55	30	0.25
27	CH5320	469	2N5320	80	30	0.25
Chips Silicon Power						**PNP**
28	CH4037	469	2N4037	−40	35	−0.175
29	CH4036	469	2N4036	−65	35	−0.175
30	CH5323	469	2N5323	−55	30	−0.25
31	CH5322	469	2N5322	−80	30	−0.25

Chips, known also as pellets or dies represent the elctronic portion of the transistor.

Power Amplifier

LINE No.	RCA Type No.	Data File No.	Pkg.	Supply Voltage V	I_{OUT} max. A	P_{OUT} RMS W
32	HC1000	461	E	30-75	7	100
Operational Amplifier						
33	HC2000	506	E	30-75	7	100

Package Designations

ISO-S	Isolated-stud
Plas.	Plastic
Rad.	Radial lead

Footnotes

*Typical Value
†With factory-attached heat radiator
+Silicon NPN type
††V_{CER} value
++V_{CES} value
*With flange
+*With factory-attached heat spreader
*+With factory-attached heat-clip

Data Section — Discrete Devices

Transistors

C_{rss}	small-signal reverse transfer capacitance
f_{hfb}	small-signal forward-current transfer ratio cutoff frequency
f_T	gain-bandwidth product
G_{pe}	small-signal average power gain
G_{ps}	power gain
h_{fe}	small-signal forward current transfer ratio
h_{FE}	static forward-current transfer ratio
NF	noise figure
P_T	transistor dissipation
V_{CC}	collector-supply voltage
V_{CEO}	collector-to-emitter voltage
$V_{CE(sat)}$	collector-to-emitter saturation voltage
V_{DS}	drain-to-source voltage

Thyristors

$I_{T(RMS)}$	rms on-state current
I_{GT}	gate-trigger current
V_{DROM}	repetitive peak off-state voltage
V_{GT}	gate-trigger voltage
V_{RROM}	repetitive peak reverse voltage

Rectifiers, Diacs, Diodes

I_O	average rectified forward current
I_{pulse}	peak pulse current (forward or reverse)
$V_{(BO)}$	breakover voltage (forward or reverse)
$V_{(BR)R}$	avalanche voltage
V_{RRM}	repetitive peak reverse voltage

Emitters

IFM	peak forward current
P_O	radiant power output, continuous
P_{OM}	peak radiant power output, pulsed

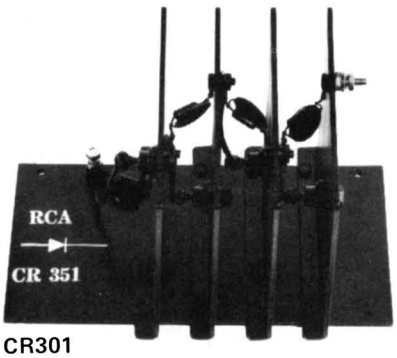
Power Hybrid Circuits

I_{OUT}	output current, peak
P_{OUT}	power output

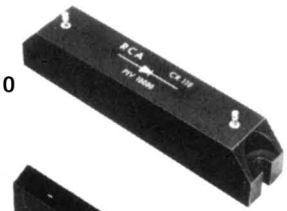
Military Specifications Types

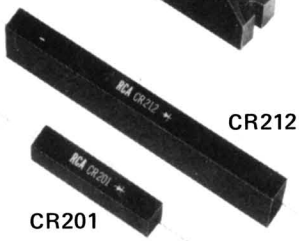
RCA (JAN) Type No.	MIL-Spec 19500/	Page No.	Line No.
2N384	27	—	—
2N388	65	—	—
2N398A	174	—	—
2N404	20	—	—
2N404A	20	—	—
2N918	301	11	1
2N1183	143	11	43
2N1183A	143	11	44
2N1183B	143	11	45
2N1184	143	11	46
2N1184A	143	11	47
2N1184B	143	11	48
2N1224	189	—	—
2N1225	189	—	—
2N1302	126	—	—
2N1303	126	—	—
2N1304	126	—	—
2N1305	126	—	—
2N1306	126	—	—
2N1307	126	—	—
2N1308	126	—	—
2N1309	126	—	—
2N1479	207	11	67
2N1480	207	11	68
2N1481	207	11	69
2N1482	207	11	70
2N1483	180	12	8
TX2N1483	180	12	8
2N1484	180	12	9
TX2N1484	180	12	9
2N1485	180	12	10
TX2N1485	180	12	10
2N1486	180	12	11
TX2N1486	180	12	11
2N1487	208	12	50
2N1488	208	12	51
2N1489	208	12	52
2N1490	208	12	53
2N1493	247	14	4
2N2015	248	12	73
2N2016	248	12	74
2N2857	343	14	6
TX2N2857	343	14	6
2N3055	407	12	65
TX2N3055	407	12	65
2N3375	341	14	11
TX2N3375	341	14	11
2N3439	368	12	117
2N3440	368	12	118
2N3441	369	12	14
2N3442	370	12	68
2N3553	341	14	12
TX2N3553	341	14	12
2N3771	413	12	76
TX2N3771	413	12	76
2N3772	413	12	77
TX2N3772	413	12	77
2N3866	398	14	17
TX2N3866	398	14	17
2N4440	341	14	20
TX2N4440	341	14	20

Photographs of Solid-State Discrete Devices



CR301


CR110



CR212

CR201

Press-Fit

Stud

Iso-Stud

TO-1 Double Ended

TO-1 Two-Lead

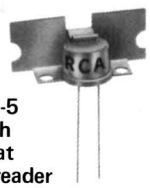
TO-3 (Fat Pins)

TO-5 Low Profile

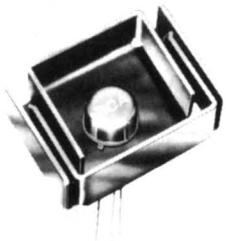
TO-39 Low Profile

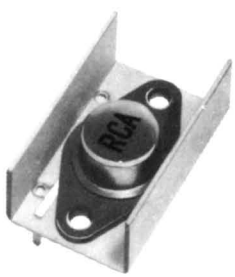
TO-5 with Flange

TO-3 with Soldering Lugs



TO-5 with Heat Spreader


TO-5 with Heat Radiator



TO-66 with Heat Radiator

Photographs of Solid-State Discrete Devices

DO-1

DO-4

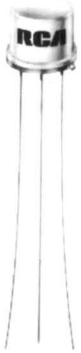
DO-5

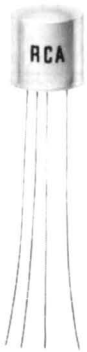
DO-15

DO-26

TO-1

TO-3

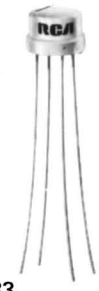

TO-5


TO-7

TO-8

TO-11

TO-18


TO-33

TO-36

TO-39

TO-40

TO-44

TO-45

TO-46

TO-48

TO-52

TO-60

TO-63

TO-66

TO-72

TO-104 3-Leads

TO-104 4-Leads

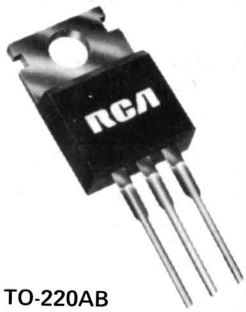
TO-201A

TO-215AA

TO-216AA

TO-217AA

TO-220AA


TO-220AB

Radial

HF-31

HF-36

OP-10

OP-3

Power Hybrid Circuit

Linear Integrated Circuits

Industrial and Military Applications

Quick Reference Applications Guide

Operational Amplifiers

Micropower			High Current	General Purpose	Wide-Band	Premium Low Noise
Single OTA	Triple OTA Array	Single Op Amp.				
CA3080,A	CA3060	CA3078	CA3033,A CA3047,A	CA3741 CA3741C	CA3008,A CA3010,A CA3015,A CA3016,A CA3029,A CA3030,A CA3037,A CA3038,A	CA6741T

High-Gain Wide-Band Amplifiers

Video DC-200 MHz	Low Power Video DC-40MHz	Multi Purpose Power DC-8MHz
CA3040	CA3021 CA3022 CA3023	CA3020,A

Differential Amplifiers

DC DC-30MHz	AF DC-3kHz	IF DC-15MHz	RF DC-100MHz	Video & Wide-Band DC-55MHz	Dual Darlington Connected DC-20MHz	Dual Independ. DC-500MHz	Cascade DC-500MHz
CA3000 CA3000/1-4	CA3008 CA3007	CA3002	CA3004 CA3005 CA3006	CA3001 CA3001/1-4	CA3050* CA3051*	CA3026* CA3049* CA3054*	CA3028,A,B CA3028B/1-4 CA3053

*See Arrays

Power Control Circuits

Thyristor Control	Voltage Regulator	Optoelectronic
CA3058 CA3059 CA3079	CA3055 CA3085,A,B	CA3062

Arrays

Matched Diode Types		Transistor Types					Amplifier Types		
Individual	Quad plus Two	General Purpose N-P-N	General Purpose P-N-P	Dual Darlington Connected	Darlington Connected Pair plus Two Individual	Differentially Connected Pair plus Three Individual	Dual Independent (Differential)	Three-Ampl.	Four-Ampl.
CA3019	CA3039	CA3081 CA3082 CA3083 CA3086	CA3084	CA3036 CA3050 CA3051	CA3018,A	CA3045 CA3046	CA3026 CA3049 CA3054	CA3035,V1	CA3048

Power Control Circuits

LINE No.	RCA Type No.	Data File No.	Pkg.	Characteristics @ $T_A = 25^\circ C$				
				V_{REF} (typ.) V	V_I(range) min V	V_I(range) max V	V_O(min) typ. V	V_O(max) typ. V
Voltage Regulators								
1	CA3055	395	8L TO-5	1.6	7.5	40	1.6	36
2	CA3085	491	8L TO-5	1.6	7.5	30	1.6	27
3	CA3085A	491	8L TO-5	1.6	7.5	40	1.6	—

Power Control Circuits (cont'd)

LINE No.	RCA Type No.	Data File No.	Pkg.	I_{GT} @ V_{GT}=1V mA	Typ. Total Gate Pulse Duration @ 50-60 Hz t_P µs	@ 50-60 Hz t_N µs	@ 400Hz t_P µs	@ 400Hz t_N µs
Zero Voltage Switches								
5	CA3058	490	14L DIC	105	100	100	12	10
6	CA3059	490	14L DIP	105	100	100	12	10
7	CA3079	490	14L DIP	105	100	100	12	10

LINE No.	RCA Type No.	Data File No.	Pkg.	Photo Detector and Power Amplifier: Typ. Overall Response Times @ T_A - 25°C, E = 700µW/cm², λ= 930nm			
				t_r µs	t_f µs	t_{on} µs	t_{off} µs
8	CA3062	421	12L TO-5	125	20	38	43

Operational Amplifiers

LINE No.	RCA Type No.	Data File No.	Pkg.	Characteristics @ $T_A = 25^\circ C$					
				Tot. Pwr. Sup. V	P_D typ. mW	V_{IO} max. mV	I_{IO} max. μA	I_{IB} max. μA	A_{OL} min. dB
1	CA3008	316	14L FP	20	30	5	5	12	57
2	CA3008A	310	14L FP	20	40	2	1.5	4	57
3	CA3010	316	12L TO-5	20	30	5	5	12	57
4	CA3010A	310	12L TO-5	20	40	2	1.5	4	57
5	CA3015	316	12L TO-5	40	175	5	5	24	66
6	CA3015A	310	12L TO-5	40	175	2	1.6	6	66
7	CA3015A/1-4	371	12L TO-5	High Reliability version of CA3015A/1-4					
8	CA3016	316	14L FP	40	175	5	5	24	66
9	CA3016A	310	14L FP	40	175	2	1.6	6	66
10	CA3029	316	14L DIP	20	30	5	5	12	57
11	CA3029A	310	14L DIP	20	40	2	1.5	4	57
12	CA3030	316	14L DIP	40	175	5	5	24	66
13	CA3030A	310	14L DIP	40	175	2	1.6	6	66
14	CA3033	360	14L DIC	26	120	5	0.035	0.35	84
15	CA3033A	360	14L DIC	38	250	5	0.025	0.2	90
16	CA3037	316	14L DIC	20	30	5	5	12	57
17	CA3037A	310	14L DIC	20	40	2	1.5	4	57
18	CA3038	316	14L DIC	40	175	5	5	24	66
19	CA3038A	360	14L DIC	40	175	2	1.6	6	66
20	CA3047	360	14L DIP	26	120	5	0.035	0.35	84
21	CA3047A	360	14L DIP	38	250	5	0.025	0.2	90
22	CA3078	474	8L TO-5	14	.005>7	5	0.04	0.2	86
23	CA3741C	472	8L TO-5	36	50	7.5	0.2	0.5	86
24	CA3741	472	8L TO-5	44	50	6	0.2	0.5	94
25	CA6741T**	530	8L TO-5	44	–	5	0.2	0.5	94
26	CA3060	404	16L DIC	14	.1>10	5	1	5	15,000†
27	CA3080	474	8L TO-5	34	.02>10	5	0.6	5	6,700†
28	CA3080A	474	8L TO-5	34	.01>10	5	0.2	5	7,700†

** Virtually free from "popcorn" (burst) noise: device rejected if noise burst exceeds 20 μV referred to input over a 30-second time period

† Forward Transconductance (μmho)

High-Gain Wide-Band Amplifiers

LINE No.	RCA Type No.	Data File No.	Pkg.	P_D max.	DC Supply		Typ. Characteristics @ $T_A = 25^\circ C$		
							f range	A	NF
				mW	V–	V+	MHz	dB	dB
28	CA3011	128	10L TO-5	187	0	7.5	0.1 to 20	70	8.7
29	CA3012	128	10L TO-5	167	0	7.5	0.1 to 20	70	8.7
30	CA3020	339	12L TO-5	–	0	9	DC to 9	75	–
31	CA3020A	339	12L TO-5	–	0	9	DC to 8	75	–
32	CA3021	243	12L TO-5	8	0	6	DC to 6	56	4.2
33	CA3022	243	12L TO-5	24	0	6	DC to 20	57	4.4
34	CA3023	243	12L TO-5	48	0	6	DC to 40	53	6.5
35	CA3040	363	12L TO-5	–	–6	6	DC to 200	37	9

Differential Amplifiers

LINE No.	RCA Type No.	Data File No.	Pkg.	Typ. Characteristics @ $T_A = 25^\circ C$				
				V_{IO} mV	I_{IO} μA	G_P dB	BW @-3dB MHz	NF dB
36	CA3000	121	10L TO-5	1.4	1.2	–	0.65	–
37	CA3000/1-4	368	10L TO-5	High-Rel. Version of CA3000				
38	CA3001	122	12L TO-5	1.5	1	–	29	5
39	CA3001/1-4	369	12L TO-5	High-Rel. Version of CA3001				
40	CA3002	123	10L TO-5	2.2	10	–	11	4
41	CA3004	124	12L TO-5	1.7	0.125	12	18	6.3
42	CA3005	125	12L TO-5	2.6	1.4	30	18	7.8
43	CA3006	125	12L TO-5	0.8	1.4	20	18	7.8
44	CA3007	126	12L TO-5	0.57	0.57	22	0.01	–
45	CA3028A	382	8L TO-5	0.98	0.56	39	8	–
46	CA3028B	382	8L TO-5	0.98	0.56	39	8	–
47	CA3028B/1-4	400	8L TO-5	High-Rel. Version of CA3028B				
48	CA3053	382	8L TO-5	–	–	39	8	–

Arrays

LINE No.	RCA Type No.	Data File No.	Pkg.	Typ. Characteristics @ $T_A = 25^\circ C$ for each transistor unit				
				$V_{(BR)CBO}$ V	$V_{(BR)CEO}$ V	$V_{(BR)EBO}$ V	h_{fe} h_{FE}*	f_T MHz
Transistor Arrays								
49	CA3018	338	12L TO-5	60	24	7	110	500
50	CA3018A	338	12L TO-5	60	24	7	110	500
51	CA3036	275	10L TO-5	44	20	6	82	200
52	CA3045	341	14L DIC	60	24	7	110	550
53	CA3045/1-4	341	14L DIC	High-Rel. Version of CA3045				
54	CA3046	341	14L DIP	60	24	7	110	550
55	CA3050	361	14L DIC	60	24	7	–	600
56	CA3051	361	14L DIP	60	24	7	–	600
57	CA3081	480	16L DIP	60	24	6.9	70*	–
58	CA3082	480	16L DIP	60	24	6.9	70*	–
59	CA3083	481	16L DIP	60	24	6.9	75*	–
60	CA3084	482	14L DIP	–80	–70	–100	40*	–
61	CA3086	483	14L DIP	60	24	7	100	550

Amplifier Arrays				Typ. Characteristics @ $T_A = 25^\circ C$				
				A_{G_p}* dB	NF dB	BW MHz	THD %	f_T MHz
62	CA3026	388	12L TO-5	60	8	–	–	550
63	CA3035	274	10L TO-5	44	6	2.5	–	–
64	CA3035V1	274	10L TO-5	44	6	2.5	–	–
65	CA3048	377	16L DIP	53	2	0.3	0.64	–
66	CA3049	378	12L TO-5	23*	4.6	–	–	1300
67	CA3054	388	14L DIP	60	8	–	–	550

Diode Arrays				Typ. Characteristics @ $T_A = 25^\circ C$ for each diode unit				
				V_F V	$V_{(BR)R}$ V	I_R nA	$[V_{F1}-V_{F2}]$ mV	C_D pF
68	CA3019	236	10L TO-5	0.73	6	5.5	1	1.8
69	CA3039	343	12L TO-5	0.73	7	0.016	0.5	0.65

Linear Integrated Circuits

For Consumer Applications

Quick Reference Applications Guide

FM,AM, and Audio Circuits

Stereo Preampl.	Stereo Multiplex Decoder	IF Ampl.		Wide-Band Ampl.	Limiter	Detector		AF Preampl.	Driver	Electronic Attenuator
		AM	FM			AM	FM			
			CA3011 CA3012							
				CA3013 CA3014 CA3041 CA3042	CA3013 CA3014 CA3041 CA3042		CA3013 CA3014 CA3041 CA3042		CA3041 CA3042	
CA3048 CA3052			CA3043		CA3043		CA3043	CA3043	CA3043	
			CA3075 CA3076		CA3075 CA3076		CA3075	CA3075		
	CA3090Q	CA3088E CA3089E				CA3088E CA3089E		CA3088E CA3089E		

Television Circuits

Video IF System	Automatic Fine Tuning	Remote Control	Chroma Demodulator	Chroma Signal Processors	Chroma Ampl.	Detector	Zener Diode Voltage Reg.	DC Ampl.	Output Ampl.
		CA3035,V1							
	CA3044,VI CA3064					CA3044,VI CA3064	CA3064	CA3064	CA3044,VI
				CA3066	CA3066				
CA3068			CA3067						
				CA3070					
					CA3071				
			CA3072						

CA3065: IF Amplifier/Limiter/FM Detector/Electronic Attenuator/Audio Driver in TV Sound Systems

FM, AM, Audio Circuits

LINE No.	RCA Type No.	Data File No.	Pkg.	Typ. Characteristics @ T_A = 25 °C			P_D max. mW
				A dB	THD %	$V_{I(lim)}$ μV	
FM Circuits							
1	CA3013	129	10L TO-5	67	1.8	300	120
2	CA3014	129	10L TO-5	67	1.8	300	120
3	CA3041	318	14L QUIP	67	1.5	150	250
4	CA3042	319	14L QUIP	67	1.5	150	240
5	CA3043	331	12L TO-5	80	1	50	225
6	CA3065	412	14L QUIP	20	0.9	200	370
7	CA3075	429	14L QUIP	21	1	250	429
8	CA3076	430	8L TO-5	80	–	50	430
9	CA3089E	▲	16L DIP	–	1	12	–

AM Circuits			Typ. Characteristics @ T_A = 25 °C, V+ = 12V		
			A dB	THD %	Detector Output mV(RMS)
10 CA3088E	▲	16L DIP	30	1	75

Stereo Preamplifiers			Typ. Characteristics @ T_A = 25 °C, V+ = 12V			
			A dB	THD %	A_{OL} dB	BW MHz
11 CA3048	377	16L DIP	53	0.65	58	0.3
12 CA3052	387	16L DIP	53	0.65	58	0.3

Stereo Multiplex Decoder			Typ. Characteristics @ T_A = 25 °C, V+ = 12V		
			Z_{IN} ohms	Channel Separation dB	THD %
13 CA3090Q	502	16L QUIP	50k	40	0.45

▲Preliminary Data available on request.

Television Circuits

LINE No.	RCA Type No.	Data File No.	Pkg.	Typ. Characteristics @ T_A = 25 °C				
				r_O ohms	Difference Outputs V	Color Difference Outputs R-Y V_{p-p}	G-Y V_{p-p}	B-Y Vp-p
Chroma Demodulators								
14	CA3067*	466	16L QUIP	5	±0.3	3	1.1	3.6
15	CA3072**	468	14L DIP	180	±0.6	8	2	10

Chroma Signal Processors			Oscillator Outputs V_{p-p}	ACC Detected Outputs mV	Chroma Output V_{p-p}
16 CA3066*	466	16L QUIP	2.5	900	1
17 CA3070**	468	16L DIP	1	150	–

Chroma Amplifier			A dB	BW Amp.1 MHz	BW Amp.2 MHz	Max. Chroma Output Vrms
18 CA3071**	468	14L DIP	17.5	12	30	20

Video IF System			Video Sensitivity μV	AFT Drive Level mV	Sync Tip Level V	Chroma Output V	Sound Output mV
19 CA3068	467	20L QUIP	100	15	0.8	0.8	200

Automatic Fine Tuning			Typ. Admittance Characteristics @ T_A = 25 °C		
			Y_{11} m mho	Y_{21} m mho	Y_{22} m mho
20 CA3044	340	10L TO-5	0.5+j1.1	-11.7+j0.1	0.077+j0.9
21 CA3044V1	340	10L TO-5†	0.5+j1.1	-11.7+j0.1	0.077+j0.9
22 CA3064	396	10L TO-5	0.41+j1.0	24.5+j29	0.04+j0.9

Remote Control			Typ. Characteristics @ T_A = 25 °C			
			BW MHz	A dB	NF dB	Sensitivity μV
23 CA3035	274	10L TO-5	2.5	44	6	100
24 CA3035V1	274	10L TO-5†	2.5	44	6	100

* CA3066 and CA3067 together constitute a complete chroma system

** CA3070, CA3071, and CA3072 together constitute a complete TV chroma system

† Formed lead

Digital Integrated Circuits

COS/MOS *

Classification Chart

Gates							Gate Arrays		Gen. Purpose
NOR (Positive Logic)				NAND (Positive Logic)			AND-OR Select Quad	Exclusive-OR Quad	Complementary Pair Dual Plus Inverter
Dual 3-Input Plus Inverter	Quad 2-Input	Dual 4-Input	Triple 3-Input	Quad 2-Input	Dual 4-Input	Triple 3-Input			
CD4000AD CD4000AE CD4000AK	CD4001AD CD4001AE CD4001AK	CD4002AD CD4002AE CD4002AK	CD4025AD CD4025AE CD4025AK	CD4011AD CD4011AE CD4011AK	CD4012AD CD4012AE CD4012AK	CD4023AD CD4023AE CD4023AK	CD4019AD CD4019AE CD4019AK	CD4030AD CD4030AE CD4030AK	CD4007AD CD4007AE CD4007AK

Hex Buffers Logic-Level Converters		Decoders	Multi-plexers	Arithmetic Devices			Flip Flops	
Inverting	Non-Inverting	BCD-to Decimal	Quad Bilateral Switch	Four-Bit Full Adder	Triple Serial Adder		Dual 'D' Type with Set-Reset	Dual J–K Master-Slave
					Positive Logic	Negative Logic		
CD4009AD CD4009AE CD4009AK	CD4010AD CD4010AE CD4010AK	CD4028AD CD4028AE CD4028AK	CD4016AD CD4016AE CD4016AK	CD4008AD CD4008AE CD4008AK	CD4032AD CD4032AE CD4032AK	CD4038AD CD4038AE CD4038AK	CD4013AD CD4013AE CD4013AK	CD4027AD CD4027AE CD4027AK

Counter/Dividers							Static Shift Registers			
7-Stage Binary Ripple Carry	14-Stage Binary Ripple Carry	Decade-10 Decoded Decimal Outputs	Decade-7-Segment Display Outputs	Octal-8-Decoded Outputs	Divide-by-'N' Fixed or Program-mable	Pre-Settable Up/Down	18 Stage	8-Stage Synch-ronous	8-Stage Asynch-ronous	Dual 4-Stage
CD4004AD CD4004AE CD4004AK CD4004AT CD4024AD CD4024AE CD4024AK CD4024AT	CD4020AD CD4020AE CD4020AK	CD4017AD CD4017AE CD4017AK	CD4026AD CD4026AE CD4026AK CD4033AD CD4033AE CD4033AK	CD4022AD CD4022AE CD4022AK	CD4018AD CD4018AE CD4018AK	CD4029AD CD4029AE CD4029AK	CD4006AD CD4006AE CD4006AK	CD4014AD CD4014AE CD4014AK	CD4021AD CD4021AE CD4021AK	CD4015AD CD4015AE CD4015AK

* **CO**mplementary **S**ymmetry/**M**etal-**O**xide **S**emiconductor

COS/MOS

Static Characteristics @ $T_A = 25^{\circ}C$, V_{DD}-$V_{SS} = 10V$

Noise Immunity . . . . . .4.5V typ.
Output Voltage
Low-Level. . . . . .0.01V max.
High-Level . . . . . .9.99V min.
Threshold Voltage
N-Channel. . . 1.5V typ.
P-Channel. . . –1.5V typ.

COS/MOS Maximum Ratings

	CD4000AD, AK, AT	CD4000AE
Recommended Operating Voltage Range (V_{DD}-V_{SS}) (Volts)	3 to 15	
DC Supply Voltage (Volts)	0.5 to + 15	
Dissipation (milliwatts)	200	
Operating Temperature Range (°C)	–55 to +125	–40 to +85
All Inputs	$V_{SS} \leqslant V_I \leqslant V_{DD}$	
Storage Temperature Range (°C)	65 to +150	

LINE No.	RCA Type No.	Data File No.	Pkg.	P_D max mW	Typ. Char. @ T_A = 25°C V_{DD}-V_{SS} = 10V, C_L = 15pF t_{PHL} ns	t_{PLH} ns	t_{THL} ns	t_{TLH} ns
Gates								
1	CD4000AD	479	14L DIC	0.001	25	25	35	35
2	CD4000AE	479	14L DIP	0.01	25	25	35	35
3	CD4000AK	479	14L FP	0.001	25	25	35	35
4	CD4001AD	479	14L DIC	0.001	25	25	35	35
5	CD4001AE	479	14L DIP	0.01	25	25	35	35
6	CD4001AK	479	14L FP	0.001	25	25	35	35
7	CD4002AD	479	14L DIC	0.001	25	25	35	35
8	CD4002AE	479	14L DIP	0.01	25	25	35	35
9	CD4002AK	479	14L FP	0.001	25	25	35	35
10	CD4007AD	479	14L DIC	0.001	20	20	30	30
11	CD4007AE	479	14L DIP	0.01	20	20	30	30
12	CD4007AK	479	14L FP	0.001	20	20	30	30
13	CD4011AD	479	14L DIC	0.001	25	25	40	50
14	CD4011AE	479	14L DIP	0.01	25	25	40	50
15	CD4011AK	479	14L FP	0.001	25	25	40	50
16	CD4012AD	479	14L DIC	0.001	50	25	125	40
17	CD4012AE	479	14L DIP	0.01	50	25	125	40
18	CD4012AK	479	14L FP	0.001	50	25	125	40
19	CD4019AD	479	16L DIC	0.1	50	50	40	40
20	CD4019AE	479	16L DIP	1	50	50	40	40
21	CD4019AK	479	16L FP	0.1	50	50	40	40
22	CD4023AD	479	14L DIC	0.001	25	25	40	50
23	CD4023AE	479	14L DIP	0.01	25	25	40	50
24	CD4023AK	479	14L FP	0.001	25	25	40	50
25	CD4025AD	479	14L DIC	0.001	25	25	35	35
26	CD4025AE	479	14L DIP	0.01	25	25	35	35
27	CD4025AK	479	14L FP	0.001	25	25	35	35
28	CD4030AD	503	14L DIC	0.01	40	40	25	30
29	CD4030AE	503	14L DIP	0.1	40	40	25	30
30	CD4030AK	503	14L FP	0.01	40	40	25	30
Hex Buffers/Logic-Level Converters								
31	CD4009AD	479	16L FP	0.005	10	25	16	50
32	CD4009AE	479	16L DIC	0.05	10	25	16	50
33	CD4009AK	479	16L DIP	0.005	10	25	16	50
34	CD4010AD	479	16L FP	0.005	10	25	16	50
35	CD4010AE	479	16L DIC	0.05	10	25	16	50
36	CD4010AK	479	16L DIP	0.005	10	25	16	50
Decoders								
37	CD4028AD	503	16L DIC	0.1	100	100	30	30
38	CD4028AE	503	16L DIP	1	100	100	30	30
39	CD4028AK	503	16L FP	0.1	100	100	30	30

Multiplexers				P_D max mW	Typ. Characteristics@ T_A = 25°C, V_{DD}-V_{SS} = 10V Turn "ON" ns	Sig. In to Sig. Out ns
40	CD4016AD	479	14L DIC	0.005	20	10
41	CD4016AE	479	14L DIP	0.05	20	10
42	CD4016AK	479	14L FP	0.005	20	10

COS/MOS

LINE No.	RCA Type No.	Data File No.	Pkg.	P_D max. mW	Typ. Char. @ T_A = 25°C V_{CC}-V_{SS} = 10V, C_L = 15pF f_{CL} MHz	t_{PHL}, t_{PLH} ns	t_{THL}, t_{TLH} ns
Counters/Dividers							
43	CD4004AD	479	14L DIC	0.1	7	80	80
44	CD4004AE	479	14L DIP	1	7	80	80
45	CD4004AK	479	14L FP	0.1	7	80	80
46	CD4004AT	479	12L TO-5	0.1	7	80	80
47	CD4017AD	479	16L DIC	0.1	5	200	125
48	CD4017AE	479	16L DIP	1	5	200	125
49	CD4017AK	479	16L FP	0.1	5	200	125
50	CD4018AD	479	16L DIC	0.1	5	200	125
51	CD4018AE	479	16L DIP	1	5	200	125
52	CD4018AK	479	16L FP	0.1	5	200	15
53	CD4020AD	479	16L DIC	0.25	8	150	100
54	CD4020AE	479	16L DIP	1	8	150	100
55	CD4020AK	479	16L FP	0.25	8	150	100
56	CD4022AD	479	16L DIC	0.1	6	200	125
57	CD4022AE	479	16L DIP	1	6	200	125
58	CD4022AK	479	16L FP	0.1	6	200	125
59	CD4024AD	503	14L DIC	0.1	7	80	80
60	CD4024AE	503	14L DIP	1	7	80	80
61	CD4024AK	503	14L FP	0.1	7	80	80
62	CD4024AT	503	12L TO-5	0.1	7	80	80
63	CD4026AD	503	16L DIC	0.025	3	250	300
64	CD4026AE	503	16L DIP	0.25	3	250	300
65	CD4026AK	503	16L FP	0.025	3	250	300
66	CD4029AD	503	16L DIC	0.005	5	115	50
67	CD4029AE	503	16L DIP	-.010	5	115	50
68	CD4029AK	503	16L FP	0.005	5	115	50
69	CD4033AD	503	16L DIC	0.025	3	250	300
70	CD4033AE	503	16L DIP	0.25	3	250	300
71	CD4033AK	503	16L FP	0.025	3	250	300
Static Shift Registers							
72	CD4006AD	479	14L DIC	0.01	5	100	75
73	CD4006AE	479	14L DIP	0.1	5	100	75
74	CD4006AK	479	14L FP	0.01	5	100	75
75	CD4014AD	479	16L DIC	0.1	5	100	75
76	CD4014AE	479	16L DIP	1	5	100	75
77	CD4014AK	479	16L FP	0.1	5	100	75
78	CD4015AD	479	16L DIC	0.1	5	100	75
79	CD4015AE	479	16L DIP	1	5	100	75
80	CD4015AK	479	16L FP	0.1	5	100	75
81	CD4021AD	479	16L DIC	0.1	5	100	75
82	CD4021AE	479	16L DIP	1	5	100	75
83	CD4021AK	479	16L FP	0.1	5	100	75
Flip Flops							
84	CD4013AD	479	14L DIC	0.02	10	75	50
85	CD4013AE	479	14L DIP	0.2	10	75	50
86	CD4013AK	479	14L FP	0.02	10	75	50
87	CD4027AD	503	16L DIC	0.02	8	75	50
88	CD4027AE	503	16L DIP	0.2	8	75	50
89	CD4027AK	503	16L FP	0.02	8	75	50
Adders							
90	CD4008AD	479	16L DIC	0.02	–	325●	550●
91	CD4008AE	479	16L DIP	0.2	–	325●	550●
92	CD4008AK	479	16L FP	0.02	–	325●	550●
93	CD4032AD	503	16L DIC	0.025	5	125●	50●
94	CD4032AE	503	16L DIP	0.25	5	125●	50●
95	CD4032AK	503	16L FP	0.025	5	125●	50●
96	CD4038AD	503	16L DIC	0.025	5	125●	50●
97	CD4038AE	503	16L DIP	0.25	5	125●	50●
98	CD4038AK	503	16L FP	0.025	5	125●	50●

●Sum outputs

Digital Integrated Circuits

ECCSL, 7-Segment Decoder Drivers
Classification Charts

High-Speed ECCSL*

Gates		Memory
Dual 4-Input OR/NOR	Quad 2-Input NOR	16-Bit NDRO
CD2150 CD2151	CD2153 CD2154	CD2155D

*Emitter-Coupled Current Steered Logic

7-Segment Decoder Drivers

BCD to 7-Segment Decoder Drivers			
30mA Output Line		80mA Output Line	
With Decimal Point Output & Lamp Test	With Ripple Blanking Output Intensity Control & Lamp Test	With Decimal Point Output & Lamp Test	With Ripple Blanking Output Intensity Control & Lamp Test
CD2500E	CD2501E	CD2502E	CD2503E

ECCSL

LINE No.	RCA Type No.	Data File No.	Pkg.	Typ. Characteristics @ $T_A = 25^\circ C$ $V_{CC} = 0V$, $V_{EE} = -5V$				
				P_D mW	V_{OL} V	V_{OH} B	t_{PHL} ns	t_{PLH} ns
Gates								
1	CD2150	308	14L FP	220	−1.6	−0.76	8.2	6.3
2	CD2151	308	14L FP	175	−1.6	−0.76	8.2	6.3
3	CD2152	308	14L FP	147	−1.6	−0.76	8.2	6.3
4	CD2153	308	14L FP	175	−1.6	−0.76	8.2	6.3
5	CD2154	402	14L FP	175	−1.6	−0.76	8.2	6.3

Memory				Typ. Characteristics @ T_A @ $25^\circ C$ $V_{CC} = 0V$, $V_{EE} = -5V$				
				t_{rd} ns	t_{rr} ns	t_{wr} ns	t_r ns	t_f ns
6	CD2155D	403	14L DIC	6.5	8.2	11.5	2.5	3

7-Segment Decoder Drivers

LINE No.	RCA Type No.	Data File No.	Pkg.	Typ. BCD Input/7-Seg. Out. Char. @ $T_A = 25^\circ C$, $V_{CC} = 4.75V$				
				V_{IL} V	V_{IH} V	V_{OL} V	V_{OH} V	I_{CCL} mA
BCD to 7-Segment Decoder Drivers								
7	CD2500E	392	16L DIP	0.85	2	0.4	8	50
8	CD2501E	392	16L DIP	0.85	2	0.4	8	48
9	CD2502E	392	16L DIP	0.85	2	1	8	50
10	CD2503E	392	16L DIP	0.85	2	1	8	48

When incorporating RCA Solid State Devices in equipment, it is recommended that the designer refer to "Operating Considerations for RCA Solid State Devices", Form No.1CE-402, available on request from RCA, Commercial Engineering, Harrison, N.J. 07029.

Data Section – Symbols for Integrated Circuits

A	voltage gain
A_{AF}	voltage gain, af ampli.
$A_{(dif)}$	differential voltage gain
A_{IF}	voltage gain, if ampli.
A_{OL}	voltage gain, open loop
BW	bandwidth
C_D	diode capacitance
CMRR	common-mode rejection ratio
f_{CL}	clock frequency
f_T	gain-bandwidth product
G_p	power gain
h_{fe}	small signal forward current transfer ratio
h_{FE}	static forward current transfer ratio
I_{GT}	gate trigger current
I_{IB}	input bias current
I_{IO}	input offset current
I_R	dc reverse (leakage) current
NF	noise figure
P_D	quiescent device dissipation
r_o	output impedance
R_{ON}	on resistance
S/N	signal-to-noise ratio
t_f	fall time
THD	total harmonic distortion
$THD_{(det)}$	total harmonic distortion, detector
t_{THL}	high-to-low level transition time
t_{TLH}	low-to-high level transition time
t_{PHL}	high-to-low level propagation delay time
t_{PLH}	low-to-high level propagation delay time
t_r	rise time
t_{rd}	read delay time
t_{rr}	read recovery time
t_{wr}	write recovery time
$V_{(BR)CBO}$	collector-to-base breakdown voltage
$V_{(BR)CEO}$	collector-to-emitter breakdown voltage
$V_{(BR)EBO}$	emitter-to-base breakdown voltage
$V_{(BR)R}$	dc reverse breakdown voltage
V_{DD}	most positive dc supply voltage
V_F	dc forward voltage drop
V_{GT}	gate-trigger voltage
V_I	input voltage
V_{IH}	high-level input voltage
V_{IL}	low-level input voltage
$V_{I(lim)}$	input limiting voltage (knee)
V_{IO}	input offset voltage
V_{is}	input signal voltage
V_O	output voltage
V_{OH}	high-level output voltage
V_{OL}	low-level output voltage
V_{REF}	reference voltage
V_S	signal loss
V_{SS}	most negative dc supply voltage
Y_{11}	input admittance
Y_{21}	forward transfer admittance
Y_{22}	output admittance

Beam-Lead (Sealed-Junction) Linear Integrated Circuits

The following types are beam-lead (sealed-junction) versions of current RCA linear IC's.

Beam-lead types are identified by the "L" suffix. It is important that this suffix be affixed to the type number when referring to or ordering these types.

For detailed information on the listed types refer to Data Bulletin, Beam-Lead Linear Integrated Circuits, File No. 515.

CA3015L	CA3028AL	CA3045L	CA3084L
CA3018L	CA3039L	CA3054L	CA3741TL

Integrated Circuit Chips

RCA now supplies a broad line of chip versions of the current line of linear and digital IC's.

These types are identified by the "H" suffix. It is important that this suffix be affixed to the type number when referring to or ordering these types.

Linear Integrated Circuit Chips

For detailed information on the listed types refer to Data Bulletin, Linear Integrated Circuit Chips, File No. 516.

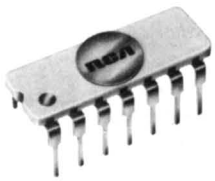
CA3000H	CA3018H	CA3043H	CA3059H
CA3001H	CA3020H	CA3045H	CA3060H
CA3002H	CA3023H	CA3048H	CA3075H
CA3005H	CA3026H	CA3049H	CA3078H
CA3012H	CA3028AH	CA3054H	CA3080H
CA3015H	CA3035H	CA3055H	CA3081H
			CA3082H
			CA3083H
			CA3084H
			CA3085H
			CA3741CH

Digital Integrated Circuit Chips

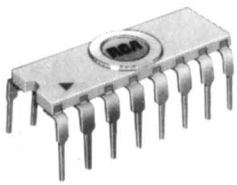
For detailed information on listed types refer to Data Bulletin, Digital IC Chips, File No. 517.

CD4000AH	CD4010AH	CD4019AH	CD4028AH
CD4001AH	CD4011AH	CD4020AH	CD4029AH
CD4002AH	CD4012AH	CD4021AH	CD4030AH
CD4006AH	CD4013AH	CD4022AH	CD4032AH
CD4007AH	CD4014AH	CD4023AH	CD4033AH
CD4008AH	CD4015AH	CD4024AH	CD4038AH
CD4009AH	CD4016AH	CD4025AH	
	CD4017AH	CD4026AH	
	CD4018AH	CD4027AH	

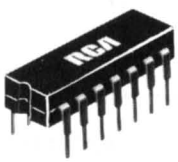
Photographs of Integrated Circuit Packages



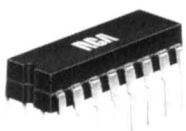
14-Lead Dual-in-Line Ceramic



16-Lead Dual-in-Line Ceramic



14-Lead Dual-in Line Plastic



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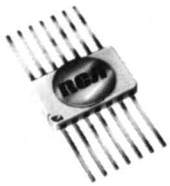


14-Lead Flat Pack

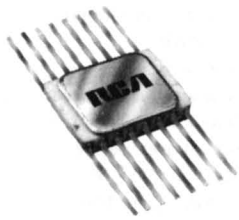
8-Lead TO-5

10-Lead TO-5

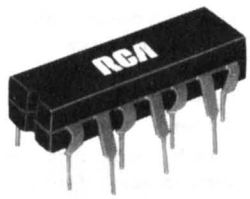
10-Formed-Lead TO-5

12-Lead TO-5

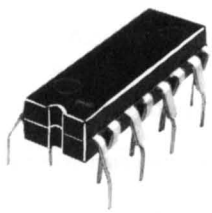
Modified TO-5



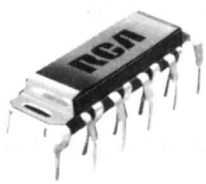
16-Lead Flat Pack



14-Lead Quad-in-Line Plastic



16-Lead Quad-in-Line Plastic



20-Lead Quad-in-Line Plastic

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